Combined Graduate Level Examination Tier I 2022

| Roll Number | WWw.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | Www.HaryanaJobs.in |
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| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Which of the following numbers will replace the question mark (?) in the given series? 1331, 2197, ?, 6859

Ans 1.4913
2. 5832
3. 4096
4. 3375
Q. 2 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 1 '.


Figure 1


Figure 2


Figure 3

Ans
$\times 1.2$
$\times 2.4$
$\times 3.6$

- 4.3

[^0]Q. 4 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related
to the third letter-cluster.
ROSE : IVQS :: SUIT : XLWT :: TIME : ?
Ans

1. IPKU
2. IPKV
3. JPKU
4. JPKV
Q. 5 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.
$\left.\operatorname{tghq} 92\right|_{N} ^{M}$
Ans
5. Seqdiz
×2. 乙ephg
X ${ }^{3} . S \partial p \mu g^{f}$

- 4. Seprgit
Q. 6 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
X 1. FDB
X 2. ZXV

3. JIG
4. LJH
Q. 7 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(9, 81, 729)
$(14,196,2744)$
Ans $\quad$ X $1 .(11,212,464)$
5. $217,289,4913)$

X $3 .(25,625,9375)$
4. $(15,375,1125)$
Q. 8 If $A+B$ means that $A$ is the father of $B, A-B$ means that $A$ is the mother of $B, A \times B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the son of $P$ ?
Ans
$X 1 . P \times P-Q$
X2. $P+Q-R$
X 3. $\mathrm{P}-\mathrm{Q} \times \mathrm{R}$
4. $P-Q+R$
Q. 9 A \# B means ' $A$ is the sister of $B$ '.
$A$ @ $B$ means ' $A$ is the son of $B$ '.
$A$ \& $B$ means ' $A$ is the father of $B$ '.
$A \% B$ means ' $A$ is the mother of $B$ '.
If $\mathbf{W} @ \mathbf{Q} \# \mathbf{T} \& \mathbf{Y} @ \mathbf{M} \% \mathrm{~K}$, then how is $\mathbf{Q}$ related to K ?
Ans
X 1. Mother's sister
$\times 2$. Sister
X 3. Mother
4. Father's sister
Q. 10 Select a suitable figure from the answer figures which would replace the question mark (?).


Ans
$\times 1$.

$\times 2$.

$\times 3$.

$\checkmark 4$.

Q. 11 By Interchanging the given two numbers which of the following equation will be not correct?
3 and 8
Ans
人 $1.7+3-4 \div 2 \times 8=9$

- $2.6 \div 2 \times 8+3-1=17$

X $3.8-3+6 \times 2 \div 4=-2$
X4. $2+3-6 \div 2 \times 8=1$
Q. 12 In a certain code language, 'HYPOCRISY' is written as 'YPHOCIRYS' and 'IMPORTANT' is written as 'MPIORATTN'. How will 'INTEGRITY' be written in that language?
Ans

1. NTIEGIRYT

X 2. NTIEGRIYT
X 3. NTIGEIRYT
4. NITEGIRYT
Q. 13 What day of the week will be on 1st January 2033?

Ans

1. Saturday

X 2. Monday
$X$ 3. Sunday
4. Tuesday
Q. 14 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Earth : Planet :: Moon : ?
Ans

1. Rocket

X 2. Space
3. Satellite
4. Orbit
Q. 15 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some dogs are animals.
Some animals are pet.
All pets are white.
Conclusions:
I. Some dogs are white.
II. Some animals are white.
III. Some animals are dogs.

Ans
X 1. All conclusions follow.
X 2. Only conclusions I and II follow.
3. Only conclusions II and III follow.

X4. Only conclusions I and III follow.
Q. 16 By interchanging the given two signs which of the following equation will be correct?
$\div$ and +
Ans $\quad \times 1.8+4 \times 5 \div 2-6=7$
X2. $16+8 \times 2 \div 6-4=8$
3. $18+2 \times 6 \div 3-7=50$

X4. $11+8 \times 16 \div 4-7=20$
Q. 17 Which letter-cluster will replace the question mark (?) to complete the given series? ABCD, BDFD, CFID, ?, EJOD

Ans
$\times 1$ DHED
2. DHDD
3. DLHD
4. DHLD
Q. 18 Select the option figure in which the given figure $(X)$ is embedded as its part (rotation is NOT allowed).


Ans
$\times 1$.

$\times 2$.

$\times 3$.

$\checkmark 4$.

Q. 19 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1. (92-72-52)
X 2. (76-56-36)

2. (98-78-56)

X 4. (88-68-48)
Q. 20 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?
$(6)^{3} \div 12+[(\sqrt{81}) \times 4]-(28 \div 2)+24=43$
Ans

- 1.12 and 24

X 2.6 and 24
$\times 3.81$ and 4
X 4.28 and 24
Q. 21 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
37:100 :: 24 : ? :: 29 : 76
Ans
$\times 1.64$
2. 61
$\times 3.75$
4. 70
Q. 22 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(23,14,9)$
$(37,19,18)$
Ans
X $1 .(125,25,5)$
2. $(125,100,5)$
3. $(125,25,100)$
4. $(125,5,25)$
Q. 23 Which figure should replace the question mark (?) if the series were to be continued?


Ans
$\times 1$.

$\times 2$.

$\checkmark^{3 .}$

$\times 4$.

Q. 24

Which of the following terms will replace the question mark (?) in the given series?
FOX ? JSX LUX NWX
Ans
$X 1$. HQS
2. HQX
$\times 3$. HXQ
$X$ 4. HEX
Q. 25 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All J are B.
II. Some D are B.

Conclusions:
I. Some D are not J.
II. Some B are not J.

Ans
X 1. Only conclusion I follows
2. Neither conclusion follows
3. Only conclusion II follows
4. Both conclusions I and II follows

Section : General Awareness
Q. 1 The railway system connecting St-Petersburg to Vladivostok is $\qquad$ -
Ans $\quad$ 1. The Altai Railway
2. The Amur Railways
3. Trans - Baikal Railway
4. Trans - Siberian Railways
Q. 2 As of 10 April 2022, who among the following is serving as the Chief Minister of Chhattisgarh?
Ans
X 1. Kawasi Lakhma
2. Tamradhwaj Sahu
3. TS Singh Deo
4. Bhupesh Baghel
Q. 3 The Electricity (Amendment) Bill, 2022 was introduced in Lok Sabha on August 8, 2022. The Bill amends the Electricity Act established in $\qquad$ .

Ans
X 1.2005
X2. 2007
$\times 3.2001$

- 4.2003
Q. 4 Which of the following sites is located on the hills near the Brahmaputra valley on the way to China and Myanmar?

Ans
X 1. Mehrgarh
2. Paiyampalli
3. Gufkral
4. Daojali Hading
Q. 5 With which of the following states is the folk dance Tarangmel associated?

Ans

1. Goa

X 2. Madhya Pradesh
3. Tamil Nadu
4. Kerala
Q. 6 Distance covered by object is $\qquad$ to time.
Ans $\times$ 1. equal proportional
2. directly proportional
3. inversely proportional
4. double proportional
Q. 7 The 'Family Doctor' programme launched on a pilot basis in the first week of September 2022. This programme was launched by which state government?
Ans
X 1. Haryana
2. Odisha
3. Tamil Nadu
4. Andhra Pradesh
Q. 8 Which of the following facts is NOT associated with PC Mahalanobis who contributed to the formulation of India's Five Year Plans?
Ans $\quad \times 1$. He established the Indian Statistical Institute.
X 2. He started the journal Sankhya.
$X 3$. He is known as the architect of Indian planning.
4. Mahalanobis was born in 1983 in Calcutta.
Q. 9 The Winter Youth Olympic Games 2024 will be held in $\qquad$ .

Ans

1. Gangwon

X 2. Lausanne
X 3. Dakar
4. Singapore
Q. 10 "All India Muslim League" was established in 1906 at $\qquad$ .
Ans

1. Dacca
2. Bombay
3. Madras
4. Surat
Q. 11 Which of the following is NOT a Fundamental Right?

Ans
X 1. Right to Freedom of Religion
X 2. Right against Exploitation
X 3. Right to Equality
4. Right to Vote
Q. 12 The Trimbakeshwar is the origin of which of the following rivers?

Ans
X 1. Mahanadi
X 2. Tapti
X 3. Ravi
4. Godavari
Q. 13 Who among the following was the guru of Pandit Ravi Shankar?

Ans
X 1. Bismillah Khan
2. Amjad Ali Khan
3. Ali Akbar Khan
4. Allaudin Khan
Q. 14 Match Column-A with Column-B.

| Column-A (Vitamin) | Alternative name |
| :--- | :--- |
| i. Vitamin A | a. Ascorbic acid |
| ii. Vitamin B12 | b. Retinol |
| iii. Vitamin C | c. Cobalamin |
| iv. Vitamin D | d. Ergocalciferol |

Ans
X 1. i-b, ii-a, iii-c, iv-d
X 2. i-a, ii-b, iii-c, iv-d
3. i-c, ii-b, iii-d, iv-a
4. i-b, ii-c, iii-a, iv-d
Q. 15 In AIBA Boxing Junior Boys and Girls Competitions, the bouts must consist of each round of $\qquad$ minutes.
Ans
$\times 1.5 \mathrm{~min}$
2. 3 min
3.1 min
4. 2 min
Q. 16 Which of the following river rises in the Indian Himalayan?

Ans
X 1. Kosi
2. Yamuna
3. Gandak
4. Ghaghra
Q. 17 Which of the following town was built by the ruler Vijayalaya in Kaveri delta?

Ans
X 1. Tiruchirappalli
2. Tiruppur
3. Madurai
4. Thanjavur
Q. 18 The first complete census taken in India is in the year $\qquad$ -.
Ans

1. 1881

X 2. 1872
× 3.1900
4. 1860
Q. 19 Which of the following is NOT the function of the central bank of the country?

Ans
X 1. It controls money supply of the country.
2. It acts as a banker to the government.
3. It accepts deposits from the public.
4. It issues the currency of the country.
Q. 20 The 'Rann Utsav' is organised in which of the following states of India to promote tourism?

Ans

1. Gujarat
2. Rajasthan
3. Punjab
4. Maharashtra
Q. 21 Which of the following states has got first of its kind state-level bird atlas in India?

Ans

1. Kerala
2. Maharashtra
3. Rajasthan
4. Andhra Pradesh
Q. 22 Identify the correct statement about inertia.

Ans

1. Greater the mass, greater the inertia
2. Lesser the weight, greater the inertia
3. Lesser the mass, greater the inertia
4. Greater the mass, lesser the inertia
Q. 23 The Anantraj Sagar Tank was built by the $\qquad$ rulers.
Ans
5. Vijayanagara
6. Maratha
7. Pala
8. Chola
Q. 24 Who among the following choreographers from Bollywood was a three time National Award winner in 2003, 2007 and 2009? He/She worked in many Hindi movies including Sanjay Leela Bhansali's movie 'Devdas'?

Ans
X 1. Geeta Kapoor
2. Saroj Khan
3. Farah Khan
4. Vaibhavi Marchant
Q. 25 In what form is the energy derived from the food that we eat is stored in our body?

Ans

1. Maltose
2. Glucose
3. Glycogen
4. Starch

Section : Quantitative Aptitude
Q. 1 The simple interest on a certain sum for 3 years at $14 \%$ p.a. is ₹ 4,200 less than the simple interest on the same sum for 5 years at the same rate. Find the sum.

Ans
$\times 1$. ₹ 16,000
$\times 2$. ₹ 10,000

- ${ }^{\text {3. }} 15,000$

X 4. ₹ 12,000
Q. 2 If 450 men can finish construction of an apartment in 20 days, then how many men are needed to complete the same work in 30 days?
Ans

1. 150
2. 300
3. 400
4. 250
Q. 3 If $a+b=11$ and $a b=35$, then what is the value of $\left(a^{4}+b^{4}\right)$ ?

Ans

1. 151
2. 261
3. 124
4. 102
Q. 4 Two numbers are in the ratio of $6: 5$. If their HCF is 3 , then what is the LCM of the two numbers?

Ans

- 1.64

2. 110

- 3.90
-4.80
Q. 5 A container contains 25 litre of milk. From this container, 5 litre of milk is taken out and replaced by water. This process is further repeated two times. How much milk is there in the container now?

Ans

1. 11.5 litre
2. 14.8 litre
3. 13.5 litre
4. 12.8 litre
Q. 6 If $x+y=36$, then find $(x-27)^{3}+(y-9)^{3}$.

Ans $\times 1.1$
$\times 2.81$
X 3.2 y
4. 0
Q. 7 The pie chart given below shows the number of bike sold by 8 different companies. The total number of bike sold by all these 8 companies are 2000. Number of bikes sold by a particular company is shown as a percent of total number of bike sold by all these 8 companies.
V


What is the difference between the average number of bikes sold by $P, Q, R$ and $S$ and the average number of bikes sold by $\mathrm{T}, \mathrm{U}, \mathrm{V}$ and W ?
Ans

1. 150

X2. 200
$\times 3.175$
4. 125
Q. 8 In the figure, $\mathrm{AB}=\mathrm{AD}=7 \mathrm{~cm}$ and $\mathrm{AC}=\mathrm{AE}$ and $\mathrm{BC}=11 \mathrm{~cm}$, then find the length of ED .


Ans
$\times 1.12$
X 2.10

- 3.11
4.2
Q. 9

If $y+\frac{1}{y}=3$, then what is the value of $\frac{1}{y^{3}}+y^{3}+2$ ?
Ans $\times 1.24$
$\times 2.18$

- 3.20
$\times 4.29$
Q. 10 The value of $\frac{2 \tan 60^{\circ}}{1+\tan ^{2} 60^{\circ}}$ is:

Ans
$\times 1 \cdot \cos 60^{\circ}$
$\times 2 . \tan 60^{\circ}$
2. $\sin 60^{\circ}$
4. $\sin 30^{\circ}$
Q. 11 The bar graph shows the percentage distribution of the expenditure of a company under various expense heads during 2003.


If the interest on loans amounted to $₹ 3.15$ crores, then the total amount of expenditure on salary, taxes and infrastructure is:

Ans

- 1.9 crores

X 2. 7.8 crores
X 3.5 .5 crores
4. 8.5 crores

## Q. 12 What is the value of $\tan 240^{\circ}$ ?

Ans
$\times 1 . \sqrt{2}$
$\times 2 .(-) \sqrt{3}$
3. $\sqrt{3}$
$\times 4.3$
Q. 13 The table given below shows the income of two companies C1 and C2 in 6 years.

|  | Company |  |
| :---: | :---: | :---: |
| Year | C1 | C2 |
| P | 750 | 850 |
| Q | 200 | 250 |
| R | 330 | 350 |
| S | 550 | 650 |
| T | 530 | 270 |
| U | 370 | 390 |

Which of the following statement is NOT correct?
$I$. The income of $C 1$ in year $P$ is 33.33 percent of the income of $C 2$ in year $Q$.
II. The average income of C1 and C2 in year T is 400 .

Ans

1. Only I
2. Both I and II
3. Neither I nor II
4. Only II
Q. 14 The single discount equivalent to two successive discounts of $15 \%$ and $12 \%$ on an article is:
Ans
$\times 1.3 \%$
5. $25.2 \%$

X 3. $74.8 \%$
X4. $27 \%$
Q. 15 A copper sphere of diameter 18 cm is drawn into a wire of diameter 6 mm . Find the length of the wire.
Ans
X 1.143 m
2. 108 m
$\times 3.324 \mathrm{~m}$
X 4.234 m
Q. 16 A solid metallic sphere of radius 13 cm is melted and recast into a cone having diameter of the base as 13 cm . What is the height of the cone?
Ans
$\times 1.246 \mathrm{~cm}$
2. 152 cm
$\times 3.174 \mathrm{~cm}$
4. 208 cm
Q. 17 If $\tan \theta+\sec \theta=7, \theta$ being acute, then the value of $5 \sin \theta$ is:

Ans
< 1. $\frac{25}{24}$
2. $\frac{24}{25}$
3. $\frac{1}{24}$
4. $\frac{24}{5}$
Q. 18 From the following figure find $\mathrm{x}+\mathrm{y}+\mathrm{z}$.

B
C
D

Ans
$\times 1.100^{\circ}$
$\times 2.130^{\circ}$
3. $120^{\circ}$
$\times 4.110^{\circ}$
Q. 19 The ratio of expenditure to savings of a woman is $5: 1$. If her income and expenditure are increased by $10 \%$ and $20 \%$, respectively, then find the percentage change in her savings.
Ans
X 1.55\%
X $2.60 \%$
3.50\%
4. $40 \%$
Q. 20 What will be the remainder when $27^{27}+27$ is divided by $28 ?$

Ans
$\times 1.28$
$\times 2.27$
$\times 3.25$

- 4.26
Q. 21 Study the following table and answer the question below.

| School name | Total number of <br> students enrolled | Percentage of enrolled <br> students, opted Biology | Ratio of male to female <br> students who opted Biology |
| :--- | :--- | :--- | :--- |
| A | 900 | 30 | $7: 8$ |
| B | 400 | 36 | $5: 7$ |
| C | 1000 | 24 | $5: 19$ |
| D | 800 | 18 | $3: 9$ |

Find the ratio of the number of female students who opted biology in school B and school D.
Ans
1.7:9
2. $9: 7$
3. $3: 5$
4.5:3
Q. 22 In triangle $A B C$, the bisector of angle $B A C$ cuts the line $B C$ at $D$. If $B D=6$ and $B C=14$ then what is the value of $A B: A C$ ?
Ans

1. $3: 4$

X2.7:3
X 3.3 . 10
4.3:7
Q. 23 A takes 4 times as much time as $B$ or 5 times as much time as $C$ to finish a piece of work. Working together, they can finish the work in 4 days. B can do the work alone in:
Ans

1. 10 days
2. 15 days
3. 12 days
4. 20 days
Q. 24 A swimmer swims from a point $P$ against the current for 6 min and then swims back along the current for next 6 min and reaches at a point $Q$. If the distance between $P$ and $Q$ is 120 m then the speed of the current (in $\mathrm{km} / \mathrm{h}$ ) is:
Ans
5. 0.4
6. 0.2
7. 1
8. 0.6
Q. 25 Kapil sells a mobile to Sachin at a gain of $15 \%$ and Sachin again sells it to Rohit at a profit of $12 \%$. If Rohit pays Rs.322, what is the cost price of the mobile for Kapil?

Ans

1. Rs. 350
2. Rs. 450
3. Rs. 250
4. Rs. 325

Section : English Comprehension
Q. 1 Select the most appropriate ANTONYM of the word 'fertile' in the given sentence.

The teacher asked, "Wheat is grown in which kind of land - rich, wet, barren and fecund?"

Ans

1. Fecund
2. Rich
3. Barren
4. Wet
Q. 2 Select the correct passive form of the given sentence. The manager explained the latest assignment to Lana.

Ans

1. The latest assignment was explained to Lana by the manager.
2. The latest assignment had explained to Lana by the manager.
3. The latest assignment had been explained to Lana by the manager.
4. The latest assignment had been explain to Lana by the manager.
Q. 3 Select the most appropriate synonym of the given word.

Transient
Ans
X 1. Transform
2. Temporary
3. Transmit
4. Trap
Q. 4 Select the correct direct form of the given sentence.

She asked me why I had been smoking that day.
Ans

1. She said to me, "Why were you smoking today?"
2. She said to me, "Why are you smoking today?"
3. She said to me, "Why you smoke today?"
4. She says to me, "Why were you smoking this day?"
Q. 5 Choose the option that can substitute the underlined segment correctly and complete the meaning of the sentence.

Navika is a superb and impressive child in her class.
Ans
X 1. Splendid
2. Brilliant

X 3. Dazzling
4. Vivid
Q. 6 Select the most appropriate ANTONYM of the given word.

Casual
Ans
X 1. Spiritual
X 2. Personal
3. Formal

X 4. Traditional
Q. 7 Select the appropriate option to replace the underlined word with the adverb of time.

I went to Paris regularly.
Ans
X 1. twice
X 2. often
3. yesterday
4. happily
Q. 8 Select the most appropriate ANTONYM of the given word.

Conceit
Ans
X 1. Concealment
X 2. Reveal
3. Modesty
4. Hidden
Q. 9 Select the option that can be used as a one-word substitute for the given group of words.

Feeling or showing extreme tiredness
Ans
X 1. Vitalised
2. Nervous
3. Weary
4. Drowsy
Q. 10 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P. We are naturally social creatures.
Q. A bit of solitude-as everyone from Thoreau to Proust have written about-is one of our most powerful tools for disconnecting and recharging.
R. This does not mean you need to lock yourself away in a room at the end of the day.
S. However, all that time with people takes its toll.

Ans
X 1. PQRS
X 2. QSRP
X 3. SPQR
4. PSQR
Q. 11 Rearrange the parts of the sentence in correct order.

Michael Holding, who
P. 20 years, has finally drawn curtains on
Q. commentary panel for more than
R. was a member of the Sky Sports
S. his stint behind the microphone

Ans

1. RQPS
2. QPRS
3. SPQR
4. PSQR
Q. 12 Select the option that expresses the given sentence in passive voice.

Robin rolled the marble through a small plastic pipe.
Ans
X 1. The marble was rolled by Robin in a small plastic pipe.
X 2. A small plastic pipe was rolled through a marble by Robin.
3. The marble was rolled through a small plastic pipe by Robin.

X4. The marble through a small plastic pipe was rolled by Robin.
Q. 13 Choose the correct meaning of the given idiom.

Bag and baggage
Ans
X 1. With burden
2. Without any aim
3. Without happiness
4. With all of one's possessions
Q. 14 Select the most appropriate option to fill in the blank.

It is very difficult for her to $\qquad$ -.
Ans

1. keep a secret
2. touch a secret
3. make a secret
4. cry a secret
Q. 15 Choose the incorrectly spelt word.

Ans
< 1. Slaughter
2. Cropping
3. Traffickng

X 4. Tyrannical
Q. 16 Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.

He was murdered in cold blood.
Ans
X 1. in cold weather
2. deliberately
3. when blood was cold
4. regretfully
Q. 17 Rectify the sentence by selecting the correct spelling of the underlined word.

David was put off by the glamming eyes in the dark.
Ans
X 1. glamning
2. gleaning
3. gleaming
4. glaming
Q. 18 Select the most appropriate option to fill in the blank. The planets are $\qquad$ around the sun.

Ans

1. revolving
2. circling
3. rotating
4. rounding
Q. 19 The following sentence has been divided into parts. One of them may contain an error.

Select the part that contains the error from the given options. If you don't find any
error, mark 'No error' as your answer.
The child was / gazing longingly / at the toy.
Ans $\times 1$. gazing longingly
2. at the toy
3. No error
4. The child was
Q. 20 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
If you are the one who is planning to lose weight, remember to keep your snacking
Ans
$\times 1$. outgoing
X 2. prejudiced
X 3. uncontrolled
4. moderate

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is (1) $\qquad$ the history of manners, turned into a story and a play, as is History itself often enough. And there is no other (2)
$\qquad$ the dis
cloaks its manners (3) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
History, (4) $\qquad$
deeper than History.
SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans $\times 1$. optionally
X 2. needlessly
3. essentially

X 4. unnecessarily

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is (1) $\qquad$ the history of manners, turned into a story and a play, as is History itself often enough. And there is no other (2) $\qquad$ than this: that the one, the Novel,
cloaks its manners (3) $\qquad$ the disguise of invented characters, while the other,
History, (4) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
deeper than History.
SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

1. difference
2. pragmatism
3. matter
4. sample

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is
(1) $\qquad$ the history of manners, turned into a story and a play, as is History itself
often enough. And there is no other (2) $\qquad$ than this: that the one, the Novel, cloaks its manners (3) $\qquad$ the disguise of invented characters, while the other
History, (4) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
deeper than History.
SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. under

X 2. beside
$\times 3$. around
X4. among

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is (1) $\qquad$ the history of manners, turned into a story and a play, as is History itself often enough. And there is no other (2) $\qquad$ the di cloaks its manners (3) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
History, (4) $\qquad$
deeper than History.
SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans

1. provides
2. negates
3. removes
4. strangulates

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is (1) $\qquad$ the history of manners, turned into a story and a play, as is History itself often enough. And there is no other (2) $\qquad$ than this: that the one, the Novel,
cloaks its manners (3) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
History, (4) $\qquad$
deeper than History.
SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. bargains
X 2. listens
3. probes
4. imbibes

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Mandi Samiti Road |
| Exam Date | 01/12/2022 |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 ' $A$ @ $B$ ' means ' $A$ is the husband of $B$ '.
' $A$ \& $B$ ' means ' $A$ is the mother of $B$ '.
' $A$ \# $B$ ' means ' $B$ is the daughter of $A$ '.
If G \# H \& I @ J \& K, then how is H related to J?
Ans
X 1. Mother
X 2. Brother
X 3. Sister
4. Mother-in-law
Q. 2

Select the correct mirror image of the given combination when the mirror is placed at line 'MN' as shown.
bjF87s $\left.\right|_{N} ^{M}$
Ans
$\times 1 . s \angle 87 j d$
2. 2 「87id
3. $5 \angle 87$ ! $d$
4. $2\lceil 8 \pm i q$
Q. 3 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(40, 120, 400)
(18, 20, 78)
Ans

1. $(29,23,98)$
2. $(56,14,108)$
3. $(25,27,92)$
4. $(11,720,660)$
Q. 4 Select the figure that will come next in the following figure series.


Ans
$\times 1$.


- 2 .

$\times 3$.

$\times 4$.

Q. 5 Select the number from among the given options that can replace the question mark
(?) in the following series.
5, 10, 17, 26, 37, 50, ?
Ans $\times 1.58$
- 2.65
$\times 3.76$
$\times 4.54$
Q. 6 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some white are car.
II. No truck is car.

Conclusion:
I. All truck are white.
II. Some car are white.

Ans

1. Only conclusion II follows
2. Neither conclusion follows
3. Only conclusion I follows
4. Both conclusions I and II follows
Q. 7 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
24:840:: 27 : ? :: 33 : 1452
Ans
$\times 1.756$
X 2.297
5. 1026
4.729
Q. 8 Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the one that is different.
Ans

- 1. MPT

X 2. FIM
X 3. GJN
4. DGI
Q. 9 In a certain code language, 'ADVANCE' is written as 'VDAAECN' and 'BABYSIT' is written as 'BABYTIS'. How will 'AFFABLE' be written in that language?
Ans
X 1. FFAALEB
2. FFAAELB
3. FFAAEBL
4. AAFFELB
Q. 10 Select the option figure that is embedded in the given figure. (Rotation is not allowed).


Ans
$\times 1$.

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 11 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
BEAR : DFCS :: FEEL : HFGM :: MANY : ?
Ans
$X$ 1. OBPY
X 2. OCPZ
3. OBPZ

X4. OBQZ
Q. 12 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Inundate
2. Invidious
3. Individual
4. Inveterate
5. Invective
6. Invincible
7. Inviolable

Ans
X 1.1,5, 4, 2, 3, 6, 7
X 2, 1, 5, 3, 4, 2, 6, 7

- 3. $3,1,5,4,2,6,7$
$\times 4,3,1,5,4,6,2,7$
Q. 13 If $A+B$ means that $A$ is the brother of $B, A \times B$ means that $A$ is the sister of $B, A \div B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the sister of $R$ ?

Ans
$X 1 . P \times Q+R$
X2. $P+Q \times R$
X 3. $P \times Q \div R$
2. $P \times Q+R$
Q. 14 Which letter cluster will replace the question mark (?) to complete the given series? NAME, NEME, ?, NOME, NUME

Ans
X 1. NMME
X 2. NKME
3. NIME

X4. NJME
Q. 15 Which figure should replace the question mark (?) if the series were to be
continued?

| $P$ | $O$ | $A$ | $Z$ | $C$ | $P$ | $\square$ | 0 | $A$ | $O$ | $P$ | $\square$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 0 | $S$ | $C$ | $O$ | 2 | $=$ | $Z$ | $S$ | $P$ | 0 | 2 | $C$ | $?$ |
| $Z$ | $=$ | $\square$ | $\square$ | 0 | $A$ | $O$ | $C$ | $=$ | $=$ | $Z$ | $A$ |  |

Ans

$=C \quad O$
×3. $\mathrm{P} \quad 2 \quad \mathrm{Z}$

Q. 16 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
35 * 5 * 7 * 2 * $19=42$
Ans
X 2. $\div, \times,+,+$
X $3 .+,-,+,-$
X4. $\div, \times,-,-$
Q. 17 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

Q. 18 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as
adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
$(16,7,37)$
$(28,9,55)$
Ans
X 1. $(19,6,36)$
2. 2 ( $13,4,25$ )

X $3 .(20,7,45)$
X 4. $(23,8,48)$
Q. 19 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).
Statements:
Some stones are cubes.
No cube is a glass.
All bats are cubes.
Conclusions:
I. Some stones being bats is a possibility.
II. No bat is a glass.
III. All cubes are bats.
IV. No stone is a glass.

Ans
X 1. Only Conclusions I, II and IV follow
X 2. Only Conclusions II and III follow
3. Only Conclusions I and II follow

X 4. Only Conclusion I follows
Q. 20 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
LAMB : DPEQ :: MOTH : JWSR :: NERD : ?
Ans

1. FVJS
2. FUJS
3. FVIS
4. FUIS
Q. 21 In a certain code language, 'FUEL' is coded as ' 50 ' and 'JEER' is coded as ' 44 '. How will 'FARE' be coded in that language?

Ans
$\times 1.38$

- 2.34

3. 40
4. 36
Q. 22 Which of the following interchanges of numbers and mathematical signs would make
the given equation correct?
$729 \times 81 \div 20+16-6=50$
Ans
5. 6 and $20, \times$ and $\div$
6. 20 and 50, + and -
7. 16 and $50, \times$ and +
8. 16 and $20,+$ and $\div$
Q. 23 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
RTM, VZX, ZFI, DLT, ?
Ans
9. HRE
10. RST
11. TMO
12. HRS
Q. 24 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. $(15-220-215)$
2. $(10-100-95)$
3. $(20-400-395)$
4. $(25-625-620)$
Q. 25 By interchanging the given two signs and numbers which of the following equation will be not correct?
$x$ and,- 8 and 4
I. $4+3 \times 8-2 \div 1=3$
II. $8 \times 2-4+6 \div 2=11$

Ans
X 1. Both I and II
2. Only II
3. Neither I nor II
4. Only I

Section: General Awareness
Q. 1 The Asian Games 2018 were held in which of the following countries?

Ans
X 1. South Korea
2. Indonesia
3. Japan
4. China
Q. 2 When is Raksha Bandhan celebrated in India as per the Hindu calendar?

Ans
X 1. Amavasya, Shravan month
X 2. Poornima, Ashadha month
X 3. Amavasya, Ashadha month
4. Poornima, Shravan month
Q. 3 Protection of life and liberty is included under which Article of the Constitution of India?
Ans

1. Article 21
2. Article 23
3. Article 24
4. Article 20
Q. 4 Which of the following is NOT the correct match?

Ans

1. The acid present in tomato - Formic acid

X 2. The acid present in orange - citric acid
X 3. The acid present in grapes - Tartaric acid
X 4. The acid present in rancid butter - Butyric acid
Q. 5 The percentage of earth's water found in the oceans is $\qquad$ .
Ans $\times 1.94$ percent
2. 97.2 percent
3. 90.2 percent
4. 92.2 percent
Q. 6 Decadal growth rate of population between 2001-2011 is $\qquad$ -.
X 1. 18.70 percent
2. 15.70 percent
3. 17.70 percent
4. 16.70 percent
Q. 7 The Paramhans Mandali was founded in 1840 at $\qquad$ to work for the abolition of caste.
Ans

1. Delhi
2. Calcutta
3. Bombay
4. Madras
Q. 8 Who was the Mughal emperor, when a massive rebellion against british rule broke out in 1857?
Ans
X 1. Farrukhsiyar
5. Bahadur Shah Zafar

X 3. Akbar II
X 4. Aurangzeb
Q. 9 The motion of $\qquad$ body is an example of uniformly accelerated motion.
Ans $\times 1$. resting
X 2. Decelerating
3. parabolic
4. freely falling
Q. 10 Gross primary deficit is the difference between

Ans
X 1. revenue deficit and interest receipts
$\times 2$. gross fiscal deficit and interest receipts
X 3. revenue deficit and interest payments
4. gross fiscal deficit and net interest liabilities
Q. 11 Which of the following folk dances does NOT belong to the state of Madhya Pradesh?

Ans

1. Laho

X 2. Phulpati
X 3. Matki
4. Jawara
Q. 12 Which of the following venues was decided to host the 2022 Asian Games?

Ans 1.Hangzhou, China
X 2. Guangzhou, China
X 3. Incheon, South Korea
X 4. Jakarta, Indonesia
Q. 13 The Revolutionary Socialist Party was established in $\qquad$ .
Ans
X 1.1936
X2. 1925

- 3.1940
$\times 4.1929$
Q. 14 Singers Sujatha and Ananthu have been awarded the Kalaimamani Award for the year by the Tamil Nadu Government.
Ans
$\times 1.2022$
X 2. 2019
- 3.2021

X4. 2020
Q. 15 Which of the following element is more reactive than copper?

Ans
X 1. Gold
2. Zinc
3. Silver
4. Platinum
Q. 16 The New Delhi International Arbitration Centre (Amendment) Bill, 2022 was introduced in Lok Sabha on $\qquad$ -.

Ans
X 1. June 8, 2022
2. October 7, 2022
3. September 6, 2022
4. August 5, 2022
Q. 17 Who has been named as the next chairperson of the Securities and Exchange Board of India in March 2022?

Ans

1. Debasish Panda
2. Madhabi Puri Buch
3. T. Raja Kumar
4. Ashwani Bhatia
Q. 18 Mangubhai Chhaganbhai Patel was appointed as the Governor of $\qquad$ in July 2021.
Ans
5. Madhya Pradesh
6. Himachal Pradesh
7. Uttar Pradesh
8. Arunachal Pradesh
Q. 19 How much purse money was given to a Sangeet Natak Akademi fellow in 2019?

Ans
$X$ 1. ₹4 lakh
2. ₹3 lakh

X 3. ₹2 lakh
X 4. ₹1 lakh
Q. 20 Which of the following animals have a single opening in their digestive system that serves both as a mouth and an anus?
Ans
X 1. Arachnids
2. Echinoderms
3. Platyhelminthes
4. Arthropods
Q. 21 Which of the following city of India was a coastal settlement where ships unloaded goods from distant lands between 2200 and 1900 years ago?
Ans
X 1. Karaikal
X 2. Veerampattinam
X 3. Yanam
2. Arikamedu
Q. 22 Which of the following is soda lime?

Ans
$X$ 1. $\mathrm{Ca}(\mathrm{OH})_{2}+\mathrm{CaO}$
X 2. $\mathrm{KOH}+\mathrm{CaO}$
$\times$ 3. $\mathrm{CaCl}_{2}+\mathrm{CaO}$
4. $\mathrm{NaOH}+\mathrm{CaO}$
Q. 23 The Centre introduced a new bill called the Criminal Procedure (Identification) Bill 2022. This Bill will repeal the Identification of Prisoners Act which was established in
$\qquad$ -.
Ans

1. 1930
2. 1950
3. 1945
4. 1920
Q. 24 Where was the first Jute factory in India established?

Ans
X 1. Cuttack, Odisha
2. Ongole, Andhra Pradesh
3. Rishra, West Bengal
4. Raigarh, Chhattisgarh
Q. 25 In which of the following states was 'Kudumbashree,' women-oriented, community-based, poverty-reduction programme implemented?

Ans
X 1. Maharashtra
2. Kerala
3. Bihar
4. Uttar Pradesh

Section : Quantitative Aptitude
Q. $116 \cos ^{3} \frac{\pi}{6}-12 \cos \frac{\pi}{6}=$ $\qquad$ .

Ans

1. 0
<2. 2
X 3.1
2. -1
Q. 2 Two equal circles of radius 8 cm intersect each other in such a way that each passes through the centre of the other. The length of the common chord is:

Ans
-1. $8 \sqrt{3} \mathrm{~cm}$
$\times$ 2. $\sqrt{3} \mathrm{~cm}$
X3. $2 \sqrt{3} \mathrm{~cm}$
X4. $4 \sqrt{3} \mathrm{~cm}$
Q. 3 The table given below shows the number of bicycle sold by six companies.

| Companies | Bicycle |
| :---: | :---: |
| A | 60 |
| B | 90 |
| C | 120 |
| D | 165 |
| E | 180 |
| F | 120 |

What are the ratio of number of bicycle sold by $B$ to the number of bicycle sold by $D$ ?
Ans
X1.11:5
X2.11:6
3.5:13
4. $6: 11$
Q. 4 A chord of length 42 cm is drawn in a circle having diameter 58 cm . What is the minimum distance of other parallel chord of length 40 cm in the same circle from 42 cm long chord?
Ans
X 1.4 cm
2.1 cm
3.3 cm
4.2 cm
Q. 56 men and 8 women can do a piece of work in 10 days, whereas 26 men and 48 women can do the same work in 2 days. What will be the time taken by 15 men and 20 women to do the same work?
Ans
X 1.6 days
2. 10 days
3. 4 days
4. 8 days
Q. 6 The following table gives the subscription of different schemes of a Mutual Fund Company over the months.
(Rupees in crores)

| Months | Schemes |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | V | W | X | Y | Z |  |
| September | 200 | 70 | 30 | 290 | 10 | 600 |
| October | 120 | 130 | 70 | 150 | 290 | 760 |
| November | 45 | 35 | 25 | 125 | 160 | 390 |
| December | 160 | 110 | 40 | 115 | 130 | 555 |
| January | 80 | 90 | 70 | 100 | 140 | 480 |
| February | 130 | 150 | 30 | 40 | 390 | 740 |

What is the difference in the subscription of scheme X between December and
February?
Ans

1. 10 crores
2. 18 crores
3. 8 crores
4. 25 crores
Q. 7 The value of $\frac{428 \times 428 \times 428+348 \times 348 \times 348}{428 \times 428-428 \times 348+348 \times 348}$ is:

Ans

1. 776
2. 62080
3. 80
4.40
Q. 8 If the 5 -digit number 750 PQ is divisible by 3,7 and 11 , then what is the value of $P+$ 2Q?

Ans
2. 17
$\times 2.15$
$\times 3.18$
$\times 4.16$
Q. 9 Raju, Ravi and Ashok contested an election. 5\% votes polled were invalid. Raju got $30 \%$ of the total votes. Ravi got $32 \%$ of the total votes. The winner got 5136 more votes than the person who received the least number of votes. Find the total number of votes polled.
Ans

- 1.171200

X2. 64200
X 3.171220
$\times 4.172100$
Q. 10 A horse was sold for Rs. 60,000 at a profit of $20 \%$. For what price should he have sold to gain a $30 \%$ profit?
Ans
X 1.Rs.64,000
2. Rs.65,000

X 3. Rs.50,000
4. Rs.55,000
Q. 11 If $\frac{a^{2}+b^{2}+c^{2}-1024}{a b-b c-c a}=-2$ and $a+b=5 c$, where $c>0$, then the value of $c$ is
$\qquad$ -.

Ans
1.8
$\times 2.4$
$\times 3.12$
$\times 4.5$
Q. 12 The pie chart given below shows the production of 6 different factories. The total production of all these 6 factories are 22000. The production of a particular factory is shown as a percent of total production of all these 6 factories.

$P 1=$ The value of average production of $A, C, D$ and $F$.
$P 2=$ The difference between the production of $B$ and $E$.
What is the value of $(\mathbf{P} 1+\mathrm{P} 2)$ ?
Ans
$\times 1.2525$
$\times 2.6545$
X 3.3525

- 4.4565
Q. 13 If $p+q=6$ and $p q=4$, then what is the value of $p^{3}+q^{3}$ ?

Ans $\times 1.81$
$\times 2.64$

- 3.144
$\times 4.256$
Q. 14 The ratio of two numbers is $5: 4$ and their HCF is 4 . What is their LCM?

Ans

1. 80
2. 48
3. 36
4.60
Q. 15 If $\cos A=\frac{9}{41}$, find $\cot A$.

Ans

1. $\frac{9}{40}$
2. $\frac{41}{40}$
(3. $\frac{40}{9}$
$\times 4 . \frac{9}{41}$
Q. 16 A truck runs 492 km on 36 Litter of diesel. How many kilometres can it run on 33 Litter of diesel?

Ans
X 1.454 km
2. 453 km
3.451 km
4.452 km
Q. 17 In the given triangle, CD is the bisector of $\angle B C A$. $\mathrm{CD}=\mathrm{DA}$. If $\angle B D C=76^{\circ}$, what is the degree measure of $\angle C B D$ ?


Ans
$\times 1.32^{\circ}$
$\times 2.76^{\circ}$
X $3.80^{\circ}$
4. $66^{\circ}$
Q. 18 A dealer buys an old cooler listed at ₹ 650 and gets successive discounts of $20 \%$ and $10 \%$. He spends ₹ 38 on its repairs and sells it at a profit of $20 \%$. Find the selling price of the cooler.
Ans

1. ₹ 7.80
$\times 2$ ₹ 700
X 3. ₹ 790

- 4 ₹ 607.2
Q. 19 The pie chart given below shows the sales of 7 different companies. The total sales of all these $\mathbf{7}$ companies are $\mathbf{2 8 8 0}$. The sale of a particular company is shown in terms of degree with respect to the total sales of all these 7 companies.


The average sales of $G$ and $H$ is how much percent more than the average sales of $D$ and $I$ ?
Ans
X 1.18 .86 percent
X 2. 24.25 percent
X 3.56 .21 percent

- 4. 22.86 percent
Q. 20 What is the edge of a cube whose volume is equal to the sum of the volumes of the cubes of edge $6 \mathrm{~cm}, 8 \mathrm{~cm}$ and 10 cm ?
Ans
$\times 1.5 \mathrm{~cm}$
$\times 2.3 \mathrm{~cm}$
$\times 3.6 \mathrm{~cm}$
- 4.12 cm
Q. 21 If Ram covers a certain journey at $60 \%$ of his usual speed, he reaches the destination late by 36 min . His usual time (in min ) to reach the destination is:
Ans

1. 60
2. 72
3. 50
4. 54
Q. 22

If $\tan ^{2} \theta=1-a^{2}$, then the value of $\sec \theta+\tan ^{3} \theta \operatorname{cosec} \theta$ is:

Ans
$\times 1 \cdot(2-a)^{\frac{3}{2}}$
${ }^{2} .\left(a^{2}-1\right)^{\frac{3}{2}}$
3. $\left(2-a^{2}\right)^{\frac{3}{2}}$
4. $a^{\frac{3}{2}}$
Q. 23 Two-thirds of a certain distance was covered at the speed of $45 \mathrm{~km} / \mathrm{h}$, one-fourth at the speed of $60 \mathrm{~km} / \mathrm{h}$ and the rest at the speed of $75 \mathrm{~km} / \mathrm{h}$. Find the average speed per hour for the whole journey. (correct to 2 decimal places)

Ans
X $1.51 .25 \mathrm{~km} / \mathrm{h}$
2. $45.75 \mathrm{~km} / \mathrm{h}$
$3.58 .25 \mathrm{~km} / \mathrm{h}$
4. $49.77 \mathrm{~km} / \mathrm{h}$
Q. 24 The area of a triangle is $480 \mathrm{~cm}^{2}$ and the ratio of its sides is $10: 24: 26$. What is the perimeter of the triangle?

Ans

1. 120 cm
2. 30 cm
3. 150 cm
4.60 cm
Q. 25 Damani purchased an item costing ₹ 7,500 and paid ₹ 3,500 as a down payment for the same. If the simple interest charged for the remaining amount is $9 \%$ per annum and Damani cleared all dues after 4 months of the purchase, how much did Damani pay after 4 months as interest?
Ans
4. ₹120
5. ₹ 100
6. ₹132
7. ₹125

Section : English Comprehension
Q. 1 Rearrange the parts of the sentence in correct order.

We have been
P. able to identify certain patterns in
Q. the microbiome and immune response
R. that are clearly linked to the progression and
S. severity of brain injury

Ans
X 1. PQSR
X 2. QPSR
X 3.RSPQ
4. PQRS
Q. 2 Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

Has Gita any previous knowledge of work with junior colleagues?
Ans
$\times 1$. with
$\times 2$. Has
X 3. any
4. work
Q. 3 Select the INCORRECTLY spelt word.

Ans
X 1. Cemetery
X 2. Accommodate
X 3 . Intruder
4. Neccessary
Q. 4 Select the most appropriate option to fill in the blank.

The monster trucks have very $\qquad$ engines, they can probably pull a train coach without any problem.
Ans
X 1. dominant
2. forceful
3. impressive
4. powerful

## Q. 5 Select the sentences that contains no spelling errors.

Ans $\times 1$. Our government has launched a relatively extensive set of reforms for aborgines in the country.
2. Our government has launched a relatively extensive set of reforms for aborigines in the country.
3. Our government has launched a relatively extensive set of reforms for aboregynes in the country.
4. Our government has launched a relatively extensive set of reforms for aborigynes in the country.
Q. 6 Select the most appropriate option to fill in the blank.

The contingent managed to $\qquad$ successfully.
Ans
X 1. park the deal
2. close the deal

X 3. heal the deal
4. catch the deal
Q. 7 Select the most appropriate synonym of the bracketed word to fill in the blank.

For Rahul, everything was a $\qquad$ (modern) experience until he stepped onto the field.

Ans

1. new
2. flashy
3. global
4. Asiatic
Q. 8 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Rehan and Ronit are / good friends and / it don't matter to them / as to who is wealthier.
Ans
X 1. good friends and
5. it don't matter to them
6. Rehan and Ronit are
7. as to who is wealthier.
Q. 9 Select the most appropriate synonym of the given word.

Moral
Ans

1. Ethical
2. Honourable
3. Godliness
4. Symphony
Q. 10 Choose the correct meaning of the given idiom.

A skeleton in the cupboard
Ans
X 1. A popular fact which is not hidden
2. A popular fact to be kept secret
3. An embarrassing fact not to be kept secret
4. An embarrassing fact to be kept secret
Q. 11 Rearrange the parts of the sentence in correct order.

The rattlesnake
P. it has specialized Jacobson's
Q. organs, which gives it a heightened
R. knows when to lie low because
S. sense of smell to detect prey

Ans

1. RPQS
2. SPRQ
3. QSPR
4. QPRS
Q. 12 Choose the most appropriate meaning of the underlined word in the given sentence.

Even though Margaret had already eaten a large meal, she could not resist eating two slices of the delectable pie.
Ans
X 1. Stale
2. Delicious
$\times 3$. Nutritious
X 4. Rotten
Q. 13 Select the correct indirect form of the given sentence.

She said to me, "The charlatan will be breaking into the safe."
Ans

1. She told me that the charlatan would be breaking into the safe.

X 2. She said to me that the charlatan will be breaking in the safe.
X 3. She said to me that the charlatan can be breaking into the safe.
4. She said to me that the charlatan is breaking into the safe
Q. 14 Select the most appropriate meaning of the given idiom.

Fly into a passion
Ans

1. To be aggressive at times
2. To become aggressive often
3. To become angry suddenly

X 4. To be always angry
Q. 15 Select the correct passive form of the given sentence. Shalu has ordered new copies of the album.
Ans
X 1. New copies of the album have being ordered by Shalu.
X 2. New copies of the album has been ordered by Shalu.
X 3. New copies of the album has been order by Shalu.
4. New copies of the album have been ordered by Shalu.
Q. 16 Select the most appropriate ANTONYM of the underlined word in the given sentence.

God has clearly blessed human beings for his glory.
Ans
X 1. Appointed
X 2. Produced
X 3. Applied
4. Cursed
Q. 17 Select the option that can be used as a one-word substitute for the given group of words.

A person in love with himself
Ans

1. Narcissist
2. Lunatic
3. Stoic
4. Polyglot
Q. 18 Select the correct passive form of the given sentence.

He has downloaded the movie on his phone.
Ans

1. The movie has been downloaded by him on his phone.

X 2. The movie was downloaded by him on his phone.
X 3. The movie is been downloaded by him on his phone.
X 4. The movie are being downloaded by him on his phone.
Q. 19 Select the option that can be used as a one-word substitute for the given group of words.

Giving the worrying impression that something bad is going to happen
Ans
X 1. Desolate
2. Suspicious
3. Ominous
4. Bleak
Q. 20 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The new shop that opened last week are hardly sufficient stock of the products that it advertised about.

Ans
X 1. hardly hadn't
2. hardly had
3. hardly is having
4. is had

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank no. 1.

Ans

1. taste
2. spoonful
3. drop
4. mouthful

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank no. 2.

Ans
X 1. campaigners
2. reformers
3. champions
4. supporters

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank no. 3.

Ans
X 1. adapt
X 2. reshape
X 3. transfigure
4. convert

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank no. 4.

Ans

1. stadium
2. circuit
3. route
4. track

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank no. 5.

X 1. larger
(2. highest
3. largest
4. higher

Combined Graduate Level Examination Tier I 2022

| Roll Number | Www.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | Www.HaryanaJobs.in |
| Venue Name | ION Digital Zone iDZ SARONA |
| Exam Date | 01/12/2022 |
| Exam Time | $9: 00$ AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
$x$ and,+ 3 and 9
I. $7 \times 9-8 \div 2+3$
II. $4 \times 9-3+8 \div 2$

Ans $\times 1.0,1$
2. $-26,-29$
3. 6, 0
4. 12, 13
Q. 2 In a certain code language, 'BEHOLD' is written as 'BDEHLO' and 'INDEED' is written as 'DDEEIN'. How will 'COURSE' be written in that language?

Ans
X 1. CEROSU
2. CEORUS
3. CEOSUR
4. CEORSU
Q. 3 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Library : Books :: Museum : ?
Ans
X 1. Building
2. Artefacts

X 3. People
4. Gallery
Q. 4 Which of the following numbers will replace the question mark (?) in the given series?

382, 322, 272, 232, 202, ?
Ans
< 1.168
(2. 150
3. 182
-4. 132
Q. 5 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\checkmark 2$.

$\times 3$.

$\times 4$

Q. 6 Select the correct combination of mathematical signs to replace the * signs and balance the given equation.
21 * 4 * 156 * 13 * 11 = 83
Ans
-1.,$- \div, \times,+$
X 2. $\times,+, \div,-$
3. $\times,-, \div,+$

X4.,$+ \div,-, \times$
Q. 7 Which of the following letter-clusters will replace the question mark (?) in the given series?
PK, GT, XC, OL, ?
Ans
X 1. GT
$\times 2 . \mathrm{HS}$
X 3.EV
4. FU
Q. 8 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(3,14,1)$
$(4,36,2)$
Ans
X $1 .(8,12,2)$
X 2. $(5,81,4)$
X $3 .(7,40,3)$
4. $(8,260,2)$
Q. 9 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
12 * 24 * 4 * 2 * 60
Ans
<2.,$- \times,+,=$
X3.,$+ \times,-,=$
X4.,$+ \div, \times=$
Q. 10 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
X 1. HGF
X 2. RQP
3. UVW
< 4. LKJ
Q. 11 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Phone : Talk :: Television : ?
Ans
X 1. Remote
2. View
3. Read
4. Channel
Q. 12 Select the cube that can be formed by folding the given sheet along the lines.


Ans
X 1. None are possible
X 2. Only A and B
X 3. Only C and D

- 4. Only A
Q. 13 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown below.


## BLZK541M

Q
Ans
-MIACXIJg
$x_{2}$ JMAटYSIQ
$x^{3}$ IMAटไ5」g

Q. 14 Select the figure that will replace the question mark (?) in the following figure
series.


Ans

$\times 2$.

$\times 3$.

$\times 4$.

Q. 15 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the
statements.
Statements:
All cards are boxes.
All boxes are torches.
All torches are shoes.
Conclusions:
I. All shoes are torches.
II. All torches are boxes.
III. All boxes are cards.
IV. All cards are shoes.

Ans 1. Only conclusion IV follows
2. Only conclusions II and III follow
3. Only conclusions I and II follow
4. Only conclusion III follows
Q. 16 In a certain code language, FRUCTUS is coded as 108 , and SPRINTER is coded as 119. How will MASCULINE be coded in that language?

Ans
$\times 1.96$
$\times 2.99$

- 3.97
$\times 4.98$
Q. 17 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All W are S.
II. No $D$ is W.

Conclusion:
I. Some $S$ are W.
II. All $S$ are D.
III. No W is D.

Ans
X 1. Only conclusion III follows
2. Both conclusions I and III follows
3. Both conclusions I and II follows
4. All conclusion follows
Q. 18 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NMRQ, NDZG, NUHW, NLPM, ?
Ans
X 1. NQRC
2. NCXC

X 3. NHMH
X 4. MQRQ
Q. 19 Which figure should replace the question mark (?) if the series were to be continued?

| 4 | B | V | V | T | O | T | O | 6 | 6 | 2 | V |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | I |  |  | 6 |  |  | 4 |  |  | 9 |  | $?$ |
| 2 | T | O | 4 | B | 2 | B | 2 | V | T | O | B |  |

Ans

$\times 2$.
B 62

|  | $V$ |  |
| :--- | :--- | :--- |
| 9 | $T$ | $O$ |

$\times 3$.

| $V$ | $O$ | $B$ |
| :---: | :---: | :---: |
|  | 2 |  |
| 6 | 9 | $T$ |

$\times 4$

Q. 20 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
19 : 324 :: 25 : 576 :: 9 :?
Ans
$\times 1.16$

- 2.64
$\times 3.88$
$\times 4.72$
Q. 21 After arranging the given words according to dictionary order, which word will come at 'Fifth' position?

1. Popular
2. Population
3. Populace
4. Pope
5. Poppy

Ans

1. Population
2. Poppy
3. Popular
4. Populace
Q. 22 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(20,6,4)$
$(24,7,5)$
Ans
5. $(65,9,4)$
6. $(22,5,2)$
7. $(40,8,5)$
8. $(42,7,3)$
Q. 23 A \# B means ' $A$ is the sister of $B$ '
$A @ B$ means ' $A$ is the daughter of $B$ '
$A$ \& $B$ means ' $A$ is the husband of $B$ '
$A \% B$ means ' $A$ is the father of $B$ '
If $A$ \% B \& C \# D @ $E$, then how is $B$ related to $E$ ?
Ans
9. Brother
10. Son-in-law
11. Father
12. Son
Q. 24 If $A \times B$ means that $A$ is the brother of $B, A-B$ means that $A$ is the sister of $B, A+B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the paternal aunt of $R$ ?
Ans
X1. $\mathrm{P}-\mathrm{Q} \times \mathrm{R}$
13. $P-Q+R$
14. $P \times Q+R$
15. $P+Q-R$
Q. 25 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. $(7-343-331)$
2. $(6-216-206)$
3. $(5-125-115)$
4. $(4-64-54)$

Section : General Awareness
Q. 1 The term 'Back-stick' is used in which of the following games/sports?

Ans
X 1. Basketball
2. Badminton
3. Hockey
4. Volleyball
Q. 2 Which of the following festivals in Punjab is celebrated to commemorate the formation of the Khalsa Panth?
Ans
X 1. Lohri
2. Hola Mohalla
3. Teej
4. Baisakhi
Q. 3 What theme was decided to celebrate the second 'International Day of Yoga' in India?

Ans

1. Yoga for the achievement of the Sustainable Development Goals
2. Yoga for Peace
3. Yoga for Wellness
4. Yoga for Heart
Q. 4 Chemical formula of quick lime is $\qquad$ -
Ans

- 1. CaO
$\times 2 . \mathrm{CO}^{2}$

3. $\mathrm{CaCO}^{3}$
4. $\mathrm{Ca}(\mathrm{OH})^{2}$
Q. 5 What is the unit of work done?

Ans
X 1. Watt
X 2. Decibel
X 3. Ampere
4. Joule
Q. 6 Which of the following sites do "Not" have nuclear power plant?

Ans

1. Vijayawada
2. Naraura
3. Tarapur
4. Rawat Bhata
Q. 7 The Ramakrishna Mission stressed the ideal of $\qquad$ through social service and selfless action.
Ans
X 1. bhakti
X 2. education
5. salvation
6. God
Q. 8 International Non-Violence Day is observed on:

Ans
X1. 15 August
X 2. 31 October
3.2 October

X 4. 14 November
Q. 9 Which of the following Dynasties established the kingdom of Vijayanagara?

Ans

1. Sangama Dynasty
2. Nagama Dynasty
3. Soma Dynasty
4. Tuluva Dynasty
Q. 10 When was 'Vayudoot' airline setup in India?

Ans

- 1.1981

X 2. 1991
X 3.1971
$\times 4.1969$
Q. 11 Wearing away of landscape by different agents like water, wind and ice is called

Ans
×1. Weathering
2. Erosion
3. Metamorphosis
4. Sedimentation
Q. 12 Who has been appointed as the new chairman of the Central Board of Direct Taxes in June 2022?

Ans

1. Nitin Gupta
2. Nidhi Chibber
3. Ashish Jha
4. M Jagadesh Kumar
Q. 13 Who among the following is known as 'Sarod Samrat' in Indian Classical Music?

Ans
X 1. Pandit Ravishankar Prasad
2. Aamir Ali Khan
3. Amjad Ali Khan
4. Kishan Maharaj
Q. 14 Which of the following is NOT one of the methods of national income estimation?

Ans

1. Banking method
2. Expenditure method
3. Product method
4. Income method
Q. 15 The term 'Parliament' refers to the $\qquad$ .
Ans $\times 1$. Rajya Sabha
X 2. Lok Sabha
Х 3. State legislature
5. National legislature
Q. 16 Chief Minister of which state has inaugurated a project of the Women and Child Development department to provide milk and eggs to children at all anganwadis in the state in a bid to improve their nutrition levels?
Ans
X 1. Andhra Pradesh
6. Kerala

X 3. Karnataka
4. Tamil Nadu
Q. 17 A 'Camel Protection and Development Policy' has been announced by the government of $\qquad$ _.
Ans

1. Rajasthan
2. Punjab
3. Gujarat
4. Ladakh
Q. 18 Who among the following Presidents of India was also the deputy chairman of Planning Commission?
Ans
X 1. V V Giri
5. K R Narayanan
6. Ramaswamy Venkataraman
7. Pranab Mukherjee
Q. 19 In Golgi apparatus, the maturing face is:

Ans
X 1. spherical
2. convex

X 3. bi-concave
4. concave
Q. 20 Raja Ram Mohan Roy founded a reform association known as Brahmo Sabha which was later known as $\qquad$ —.
Ans
X 1. Dev Samaj
2. Arya Samaj
3. Brahmo School
4. Brahmo Samaj
Q. 21 $\qquad$ part of xylem tissue in plants stores food.
Ans
X 1. Vessels
2. Xylem fibres
3. Xylem parenchyma

X4. Tracheids
Q. 22 Who among the following composers won the Grammy in 2015 for his album 'Winds of Samsara' - a collaboration with South African flautist Wouter Kellerman?

Ans
X 1. Mano Murthy
X 2. Raghu Dixit
3. Subhashish Ghosh
4. Ricky Kej
Q. 23 In which of the following Indian states, Harappan cities have NOT been found?

Ans

1. Uttarakhand
2. Gujarat
3. Rajasthan
4. Haryana
Q. 24 Burning of coal is an example of $\qquad$ -.
Ans
X 1. decomposition reaction
X 2. double displacement reaction
5. combination reaction
6. displacement reaction
Q. 25 The foremost right among rights to freedom is $\qquad$ .
Ans
7. Right to life and personal liberty
8. Preventive detention
9. Freedom to assemble
10. Right to freedom of speech and expression

Section : Quantitative Aptitude
Q. 1 A dishonest merchant sells goods at a $12.5 \%$ loss on the cost price, but uses 28 g weight instead of 36 g . What is his percentage profit or loss?

Ans
X 1.6.25\% loss
2. $12.5 \%$ gain
3. $18.75 \%$ gain
4. $10.5 \%$ loss
Q. 2 The HCF of two numbers is 12 . Which one of the following can never be their LCM?

Ans
$\times 1.72$
2.60
3. 90
4. 84
Q. 3 Two circles touch each other externally at $P$. $A B$ is a direct common tangent to the two circles, $A$ and $B$ are points of contact, and $\angle P A B=40^{\circ}$. The measure of $\angle A B P$ is:

Ans
$\times 1.45^{\circ}$
(2. $55^{\circ}$
3. $50^{\circ}$
(4. $40^{\circ}$
Q. 4 The mean proportion of 169 and 144 is:

Ans

1. 156
2. 147
3. 126
4. 165
Q. 5 The length and breadth of a rectangle are increased by $8 \%$ and $5 \%$, respectively. By how much percentage will the area of the rectangle increase?

Ans

1. $13.4 \%$
2. $15.4 \%$
3. $12.4 \%$
4. 16.4\%
Q. 6

Simplify $\frac{\cos 45^{\circ}}{\sec 30^{\circ}+\operatorname{cosec} 30^{\circ}}$
Ans
$\times 1 \cdot \frac{3 \sqrt{2}+\sqrt{6}}{8}$
x2. $\frac{\sqrt{3}}{2 \sqrt{2}-2 \sqrt{6}}$
3. $\frac{3 \sqrt{2}-\sqrt{6}}{8}$
x4. $\frac{\sqrt{3}}{2 \sqrt{6}-2 \sqrt{2}}$
Q. 7 Which of the following numbers is a divisor of $\left(49^{15}-1\right)$ ?

Ans
$\times 1.46$
$\times 2.14$
$\checkmark 3.8$
$\times 4.50$
Q. 8 In a 1500 m race, Anil beats Bakul by 150 m and in the same race Bakul beats Charles by 75 m. By what distance does Anil beat Charles?

Ans

1. 217.50 m
2. 200.15 m
3. 293.50 m
4. 313.75 m
Q. 9 ₹2,500, when invested for 8 years at a given rate of simple interest per year, amounted to ₹ 3,725 on maturity. What was the rate of simple interest that was paid per annum?

Ans
X1. $6 \%$
2. $6.125 \%$
3. $6.25 \%$
4. 5.875\%
Q. 10 The following table shows the number of pages printed by 3 printers during 3 days.

| Printers | X | Y | Z |
| :---: | :---: | :---: | :---: |
| Days |  | 140 | 210 |
| Monday | 130 | 145 | 160 |
| Tuesday | 110 | 90 | 218 |
| Wednesday | 180 |  |  |

What is the average number of pages printed by printer Z during the 3 days?
Ans
-1. 196
$\times 2.194$
$\times 3.192$
X. 190
Q. 11 The batting average for 27 innings of a cricket player is 47 runs. His highest score in an innings exceeds his lowest score by 157 runs. If these two innings are excluded, the average score of the remaining 25 innings is $\mathbf{4 2}$ runs. Find his highest score in an innings.
Ans
$\times 1.176$
2. 188
3.186
<4. 174
Q. 12 P and $Q$ can complete a project in 15 days and 10 days, respectively. They started doing the work together, but after 2 days, $Q$ had to leave and $P$ alone completed the remaining work. In how many days was the whole work completed?

Ans
$\times 1.11$

- 2.12
$\times 3.13$
-4.10
Q. 13 The pie chart given below shows the number of truck sold by 8 different companies. The total number of truck sold by all these 8 companies are 4000 . Number of truck sold by a particular company is shown as a percent of total number of truck sold by all these 8 companies.


The number of trucks sold by $B, C, F$ and $H$ is how much percent less than the number of trucks sold by all these 8 companies?
Ans
X 1.46 percent
X 2. 22 percent
2. 34 percent
4. 14 percent
Q. 14

If $x^{2}-5 x+1=0$, then the value of $\frac{x^{6}+x^{4}+x^{2}+1}{5 x^{3}}=?$
Ans
$\times 1.30$
$\times 2.25$

- 3.23

4. 28
Q. 15 In a right-angled triangle $P Q R$, right-angled at $Q$, the length of the side $P R$ is 17 units, length of the base $Q R$ is 8 units, and length of the side $P Q$ is 15 units. If $\angle R P Q=\alpha$, then $\sin \alpha+\cos \alpha$ is:
Ans
5. $\frac{18}{17}$
6. $\frac{23}{17}$
7. $\frac{21}{17}$
8. $\frac{15}{17}$
Q. 16

If $\frac{(17)^{3}+(7)^{3}}{\left(17^{2}+7^{2}-k\right)}=24$, then what is the value of $k$ ?
Ans

1. 119
$\times 2.128$
$\times 3.24$
X4.109
Q. 17 The circumference of the two circles is 198 cm and 352 cm respectively. What is the difference between their radii?
Ans
X 1.45 cm
X 2. 16.5 cm
$\times 3.49 .5 \mathrm{~cm}$
2. 24.5 cm
Q. 18 Radius of a circle is 10 cm . Angle made by chord $A B$ at the centre of this circle is 60 degree. What is the length of this chord?
Ans
$\times 1.40 \mathrm{~cm}$
3. 20 cm
4. 30 cm
5. 10 cm
Q. 19 How many spherical lead shots each of diameter 8.4 cm can be obtained from a rectangular solid of lead with dimension
$88 \mathrm{~cm}, 63 \mathrm{~cm}, 42 \mathrm{~cm}$ (take $\pi=\frac{22}{7}$ )?
Ans
6. 920
7. 750
8. 650
9. 860
Q. 20 The table given below shows the number of spoon manufactured by five factories.

| Factory | Spoon |
| :---: | :---: |
| P | 100 |
| Q | 200 |
| R | 150 |
| S | 50 |
| T | 250 |

What are the ratio of number of spoon manufactured by $P$ to the number of spoon manufactured by R?
Ans
X1.3:2

- $2.2: 3$

X 3.14:1
X4.1:3
Q. 21 In the triangle $A B C, A B=12 \mathrm{~cm}$ and $\mathrm{AC}=10 \mathrm{~cm}$, and $\angle \mathrm{BAC}=60^{\circ}$. What is the value of the length of the side BC ?


Ans
X 1.10 cm
2.7 .13 cm

X 3.13 .20 cm
4. 11.13 cm
Q. 22 The value of $\tan ^{2} \theta+\cot ^{2} \theta-\sec ^{2} \theta \operatorname{cosec}^{2} \theta$ is:

Ans
$\times 1.2$
2. -2
$\times 3.0$
$\times 4.1 / 2$
Q. 23 The following bar graph shows the sales of books (in thousands) from six branches of a publishing company during two consecutive years 2018 and 2019.


What is the ratio of the total sales of the first branch for both years to the total sales of the fourth branch for both years?

Ans
$\times 1.4: 3$
$\times 2.5: 9$
X 3. $8: 11$

- 4.79
Q. 24

If $\frac{4\left[(17)^{3}-(7)^{3}\right]}{\left(17^{2}+7^{2}+p\right)}=40$, then what is the value of $p$ ?
Ans
$\times 1 .-119$
X 2. -129
2. 119
$\times 4.129$
Q. 25 Riya could not decide between discount of $\mathbf{3 0 \%}$ or two successive discounts of 25\% and $5 \%$, both given on shopping of ₹ 3,840 . What is the difference between both the discounts?
Ans
X 1. ₹44
2. ₹48

X 3. ₹42
X4. ₹ 46
Q. 1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. When this extra water vapour condenses into precipitation, it results in heavier rain

- or, if it's cold enough, heavier snow.
B. The atmosphere can store an additional $4 \%$ of water vapour for every additional $1^{\circ} \mathrm{F}$ of warming.
C. More water evaporates from soils, plants, lakes and seas as the atmosphere warms.
D. One of the most obvious indications of climate change is heavier rainfall.

Ans
$\times 1$. CBDA
2. DCBA

X 3.ACDB
X 4. BCAD
Q. 2 Select the correct indirect form of the given sentence. She said, "I am in no mood to work now."

Ans
$X 1$. She said that she has been in no mood to work then.
2. She said that she was in no mood to work now.
3. She said that she was in no mood to work then.
4. She said that she has been in no mood to work now.
Q. 3 Select the correct passive form of the given sentence. Manu will tell her later.
Ans
X 1 . She will be tell later by Manu.
2. She will tell later by Manu.
3. She will be told later by Manu.
4. She will be tell later.
Q. 4 Select the correct active form of the given sentence. Has the villa been occupied by them?
Ans
X 1. Did they occupied the villa?
2. Had they occupied the villa?
3. Have they occupied the villa?

X 4. Do they occupied the villa?
Q. 5 In the given sentence, one word may have been incorrectly spelt. Select the correctly spelt word from the given alternatives. If there is no error, select 'No error' as your answer.

The erroneous information spread rapidly across the nation and created a stir.
Ans
X 1. erronous
2. No error
3. eronneous
4. errauneous
Q. 6 Select the most appropriate ANTONYM of the word 'SINKS' from the given sentence.

Groups work together to create Christmas parade themes, which are then carried out in floats, musical groups, and strolling figures.
Ans

1. Floats
2. Create
3. Parade
4. Strolling
Q. 7 Select the most appropriate option to fill in the blank.

The angles are equal, consequently the sides are
Ans

1. equal
2. unequal
3. larger
4. smaller
Q. 8 Select the most appropriate meaning of the given idiom.

Like a cakewalk
Ans
$X 1$. Smooth surface
2. Pleasant experience
3. Easy task
4. Active
Q. 9 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

After finishing high school, I plan to pursuing law.
Ans
X 1. No substitution
2. plan to pursue

X 3. plan in pursue
X 4. plan to pursuing
Q. 10 Select the most appropriate synonym of the given word.

## Confusion

Ans
X 1. Intrepidity
$\times 2$. Stagnation
3. Perusal
4. Commotion
Q. 11 Select the most appropriate option to substitute the underlined segment in the given sentence.

Our guests arrived; they are sitting in the garden.
Ans
X 1. shall arrive
2. have arrived
$\times$ 3. are arriving
4. might arrive
Q. 12 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

During an earthquake, / it is advised to take / cover above a table / to save your life.
Ans

1. cover above a table
2. During an earthquake,
3. it is advised to take
4. to save your life.
Q. 13 Select the INCORRECTLY spelt word.

Ans
$X 1$. Finery
2. Hiest
$X$ 3. Cringe
X 4. Defer
Q. 14 Select the most appropriate meaning of the given idiom.

All eyes
Ans
X 1. Watching with anger
2. Watching eagerly

X 3. Watching with no interest
X 4. Not watching at all
Q. 15 Select the most appropriate option that can substitute the underlined segment in the given sentence.
He was looking into his book for the last two hours but couldn't find it.
Ans
X 1. looking down on his book
X 2. looking above his book
3. looking for his book
4. looking after his book
Q. 16 Select the most appropriate collocating word to fill in the blank.

Ram was praised for his $\qquad$ leadership.
Ans

1. imaginary
2. visionary

X 3. magical
X 4. broad
Q. 17 Select the most appropriate word segment for the underlined word in the given sentence.
Pintu has been advised to reduce smoking by his family doctor.
Ans

1. cut down
2. less down
3. lower down
4. up down

## Q. 18 Select the most appropriate ANTONYM of the given word.

 RebellionAns
X 1. Uprising
2. Loyalty

X 3. Sedition
X 4. Allotment
Q. 19 Select the most appropriate ANTONYM of the given word.

Hospitality
Ans
X 1. Complaint
X 2. Cordiality
2. Coldness

X 4. Wrathful
Q. 20 Select the sentence with the appropriate use of adverb of manner.

Ans $\times 1$. He done his work regularly.
2. He has just done his work.
3. He does his work carefully.
4. He has done his work on my table.

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. impact
X 2. might
$X$ 3. factors
4. force

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans $\times 1$ inserted
2. embedded

X 3. planted
X 4. stuck

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) $\qquad$ pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
$\times 1$. offices
X 2. details
3. processes
$\times 4$. hierarchies

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $\quad$ 1. mythical
2. proverbial

X 3. hypothetical
X 4. classified

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) $\qquad$ pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans $\times 1$. enhancement
$\times 2$. anticipation
3. adaptation
$\times 4$. monitoring

Combined Graduate Level Examination Tier I 2022

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| Exam Date | 01/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 Select the option figure which is embedded in the given figure (rotation is NOT allowed).


Ans
$\times 1$.

$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 2 If ' + ’ means ‘ $\div$ ’, ‘ - ’ means ' + ', ' $x$ ’ means ' - ’ and ' $\div$ ’ means ' $x$ ', what will be the value of the following expression?
$[\{(38 \times 23)-(4 \div 3)\}+(6-3)] \div 2$
Ans

1. 6
$\times 2.3$
$\times 3.8$
$\times 4.12$
Q. 3 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
GAVE : AGEV :: KEPT : EKTP :: ACID : ?
Ans
X 1. CIAD
$\times 2$ CAID
X 3 . ACDI
2. CADI
Q. 4 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 2 '.

Figure 1


Figure 2
Figure 3

Ans

1. 4
2.5
2. 1
<4.3
Q. 5 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
12:16:: 18 : ? :: 24 : 64
Ans
$\times 1.26$
$\times 2.32$
X 3.28
3. 36
Q. 6 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans


- 3. 


$\times 4$.

Q. 7 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 8 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NMQR, NQYD, NUGP, NYOB, ?
Ans
X 1. NQRC
X 2. NMWN
3. NCWN
4. NWRQ
Q. 9 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. TVR
X 2. DFB
X 3. QSO
4. KGI
Q. 10 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
JUMPED : LWORGF :: QUICKS : SWKEMU :: FUZING : ?
Ans
X 1. HKWIPB
X 2. IPKBWH
3. HWBKPI

X 4. HWKBPI
Q. 11 Which of the following letter-clusters will replace the question mark (?) and complete the following letter-cluster series?
DW, FU, GT, IR, JQ, ?
Ans
X 1. LN
2. LO
3. MO
4. LP
Q. 12 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All K are H.
II. No S is K .

Conclusion:
I. No $K$ is $S$.
II. All H are K.

Ans
X 1. Only conclusion II follows
2. Only conclusion I follows
3. Neither conclusion follows
4. Both conclusions I and II follows
Q. 13 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(240, 55, 65)
$(320,85,75)$
Ans
X 1. $(140,35,25)$
( 2. $(220,90,15)$
3. $(160,35,45)$
4. $(200,5,105)$
Q. 14 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
Some doctors are painters.
Some doctors are labours.
All the labours are athletes.
Conclusions:
I. Some labours are painters.
II. Some athletes are doctors.
III. All the doctors are athletes.
IV. Some athletes are painters.

Ans $\times 1$. Only conclusions II and III follow
2. Only conclusion II follows

X 3. Only conclusion III follows
X 4. Only conclusions I and II follow
Q. 15 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$\times 1$.

$\times 2$.

3.

$\times 4$.

Q. 16 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. $(153-151-147)$
2. (171-169-167)
3. $(183-181-178)$
4. (201-198-197)
Q. 17 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$150 \times 15+14-9 \div 2=6$
Ans
X 1.9, 2,,$- \times$
5. $9,2, \div, \times$

X $3.150,2, \div,-$
4. $15,9,+, \div$
Q. 18 In a certain code language, 'CYTOSKELETON' is written as 'TYCKSOELENOT', 'MALNUTRITION' is written as 'LAMTUNTIRNOI'. How will 'ALLITERATION' be written in that language?
Ans

1. LLAETITARNOI

X 2. LLAETIATRNOI
X 3. LLEATITARNOI
4. LLAETITRANOI
Q. 19 In a certain code language, 'PSYCHIC' is written as 'YSPCCIH' and 'CITIZEN' is written as 'TICINEZ'. How will 'MAHATMA' be written in that language?
Ans
X 1. HAMAATM
2. AHMAAMT
3. HAMAAMT
4. HAMAMAT
Q. 20 After arranging the given words according to dictionary order, which word will come at 'Fourth' position?

1. Unseen
2. Unseam
3. Unsafe
4. Unsound
5. Unsay

Ans

1. Unseen
2. Unsay
3. Unseam
4. Unsound
Q. 21 If $A \times B$ means that $A$ is the father of $B, A+B$ means that $A$ is the mother of $B, A \div B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the son of $P$ ?
Ans
$X 1 . Q+P \times R$
5. $P+Q \times R$

X $3 . R \times Q+P$
人4.P+Q $\div R$
Q. 22 Which of the following interchange of numbers and mathematical signs would make the given equation correct?
$30 \div 6 \times 4+15-35=25$
Ans
⒈ 25 and $30, \times$ and-
2. 4 and 6, + and-

- 3.25 and $35, \times$ and $\div$

X4. 30 and 35 , -and $\div$
Q. 23 A @ $B$ means ' $A$ is the sister of $B$ '.
$A$ \& $B$ means ' $A$ is the brother of $B$ '.
$A$ \# $B$ means ' $A$ is the wife of $B$ '.
$A^{\wedge} B$ means ' $A$ is the mother of $B$ '
$A+B$ means ' $A$ is the father of $B$ '.
If A + G \& I + R @ S @ \# U \& V, then which of the following statements is NOT correct?

Ans
$X 1 . I$ is the father-in-law of $U$.
2. $A$ is the maternal grandfather of $T$.
3. G is the brother of I .
4. $R$ is the paternal granddaughter of $A$.
Q. 24 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
35:21:: ? : 36:: 40:24
Ans
X 1.65

- 2.50

3. 60
4. 55
Q. 25 Which of the following numbers will replace the question mark (?) in the given series?

4, 6, 12, 14, 28, 30, ?
Ans $\quad \times 1.62$
2. 60

- 3.54
$\times 4.52$

Section : General Awareness
Q. 1 Which of the given sectors is largely driven by considerations of social welfare?

Ans

1. Foreign
2. Co-operative
3. Public
4. Private
Q. 2 The Hindu college was established in 1791 at $\qquad$ -.
Ans
X 1. Calcutta
< 2. Dacca
5. Surat
6. Banaras
Q. 3 In which of the following languages did Jyotiba Phule write 'Gulamgiri' in 1873?

Ans
X 1. English
2. Marathi
$\times$ 3. Hindi
4. Gujarati
Q. 4 Which of the following are Rabi crops only?

Ans
X 1. Maize and peas
2. Barley and gram
3. Paddy and cotton
4. Wheat and jowar
Q. 5 Identify an example of organisms that are free-swimming and bottom-dwelling forms.

Ans
X 1. Phytoplankton
2. Zooplankton
$X$ 3. Fungi
4. Jellyfishes
Q. 6 Which of the following cities hosted the 2019 Military World Games organised by the International Military Sports Council?
Ans
X 1. Rio de Janeiro, Brazil
X 2. Bogota, Colombia
2. Wuhan, China

X 4. Mungyeong, South Korea
Q. 7 Abdul Karim Khan was the exponent of which school of Hindustani Music?

Ans
X 1. Jaipur Gharana
2. Gwalior Gharana

X 3. Delhi Gharana
4. Kirana Gharana
Q. 8 Who has taken oath as Bihar Chief Minister for 8th time?

Ans $\times$ 1. Tejaswi Prasad Yadav
2. Pramod Sawant
3. Anugrah Narayan
4. Nitish Kumar
Q. 9 Which of the following statements about cell cycle is FALSE?

Ans
Х 1. Preparation of mitosis takes place in G2 phase.
2. In M phase, the cell grows physically larger and copies organelles.
3. In S phase, replication of DNA takes place.
4. In G1 phase, the cell grows physically larger and copies organelles.
Q. 10 Shyamji Krishna Varma established India House at $\qquad$ in 1905.
Ans
X 1. New York
X 2. Bombay
X 3. Paris
4. London
Q. 11 'Indira Gandhi Shehri Rozgar Guarantee Yojana 2022' has been implemented by which state government?
Ans

1. Rajasthan

X 2. Himachal Pradesh
X 3. Maharashtra
4. Uttar Pradesh
Q. 12 Choose the correct pair from the following options.

Ans
X 1. Third Five-year Plan - Rapid industrialisation and basic industries
2. Fourth Five-year Plan - Family planning programme

X 3. First Five-year Plan - Mahalanobis model
X 4. Second Five-year Plan - Focus on agriculture
Q. 13 Fundamental Duties were added in the Constitution of India under the leadership of which Prime Minister of India?
Ans
X 1. Narsimha Rao
X 2. Charan Singh
3. Indira Gandhi
4. Lal Bahadur Shastri
Q. 14 Which of the following festivals is celebrated in the month of August-September?

Ans
X 1. Makar Sankranti
X 2. Kite Festival
X 3. Bikaner Festival
4. Onam
Q. 15 'Mission Kushal Karmi' was launched to upgrade the skills of construction workers. This programme was launched by the government of $\qquad$ .
Ans

1. Gujarat
2. Haryana
3. Punjab
4. Delhi
Q. 16 first edition of the Youth Olympic Games was held at $\qquad$ -.
Ans
X 1. Lausanne
5. Singapore
6. Nanjing
7. Innsbruck
Q. 17 Thorny bushes are found in $\qquad$ region.
Ans
X 1. mediterranean
X 2. polar
8. dry desert
9. high rainfall
Q. 18 Which of the following folk dance forms does NOT belong to the state of Gujarat?

Ans
X 1. Garba
< 2. Dandiya Raas
3. Bidesiya
4. Vinchhudo
Q. 19 Who among the following classical dancers was rewarded with the Padma Vibhushan Award in 2003?
Ans

1. Sonal Mansingh
2. Kumudini Lakhia
3. Shovana Narayan
4. Sunayana Hazarilal
Q. 20 The SI unit of acceleration is $\qquad$ .
Ans
$\times 1 . \mathrm{m}^{2} / \mathrm{s}$
$\times 2 . \mathrm{m}^{2} / \mathrm{s}^{2}$
X $3 \mathrm{~m} / \mathrm{s}$
5. $\mathrm{m} / \mathrm{s}^{2}$
Q. 21 The Tamil word 'muvendar' mentioned in the Sangam poems means $\qquad$ -
Ans
X 1. dhamma mahamatta
6. Headmen
7. Rich
8. three chiefs
Q. 22 The Vice President of India is elected for a period of $\qquad$ years.
Ans
X 1.6
9. 5
$\times 3.2$
4.3
Q. 23 Which of the following is highest quality coal?

Ans
$\times 1$. Lignite
X 2. Bituminous
X 3. Peat
4. Anthracite
Q. 24 What are the three parts of bacterial flagellum?

Ans
X 1. Head, tail and lower body
2. Filament, tail and hook
3. Basal body, tail and filament
4. Filament, hook and basal body
Q. 25 Common name of the compound $\mathrm{CaOCl}_{2}$ is $\qquad$ _.
Ans

1. bleaching powder
2. washing soda
3. baking soda
4. gypsum

Section : Quantitative Aptitude
Q. 1
$x$ is a negative number such that $k+k^{-1}=-2$, then what is the value of $\frac{k^{2}+4 k-2}{k^{2}+k-5}$ $?$
Ans
$\times 1.7$

- 2.1
$\times 3 .-7$
X4. -1
Q. 2 If $\left(x+\frac{1}{x}\right)=5 \sqrt{2}$, then what is the value of $\left(x^{4}+x^{-4}\right)$ ?

Ans
$\times 1.2542$
$\times 2.2650$
X 3.2452
จ 4.2302
Q. 3 A man rows a boat a certain distance downstream in 9 hours, while it takes 18 hours to row the same distance upstream. How many hours will it take him to row three-fifth of the same distance in still water?

Ans
X1.9.5
2. 7.2
$\times 3.10$
$\times 4.12$
Q. 4 Study the given chart and answer the following question.

## Production of steel (in mn units)



What is the central angle corresponding to the production steel by Kerala?
Ans
$\times 1.82^{\circ}$
$\times 2.65 .8^{\circ}$
3. $75.2^{\circ}$
4. $72^{\circ}$
Q. 5 A shopkeeper makes a net profit of $44 \%$ on selling an article at successive discounts of $10 \%$ and $20 \%$. Find the net profit percentage, if the shopkeeper sells the same article at a discount of $15 \%$.

Ans
X $1.50 \%$
2. $70 \%$
3. $30 \%$
4. $40 \%$
Q. 6

What will be the value of $\frac{\sin 30^{\circ} \sin 40^{\circ} \sin 50^{\circ} \sin 60^{\circ}}{\cos 30^{\circ} \cos 40^{\circ} \cos 50^{\circ} \cos 60^{\circ}}$ ?
Ans
$\times 1 . \frac{1}{\sqrt{2}}$
$\times$ 2. $\sqrt{3}$

- 3.1

4. $\frac{1}{\sqrt{3}}$
Q. 7 What is the ratio between the HCF and LCM of the numbers whose LCM is 48 and the product of the numbers is 384 ?

Ans
-1.1:4
2. $1: 6$
3. $1: 3$
4. $2: 5$
Q. 8 The price of a scooter increases successively by $10 \%, 5 \%$ and $15 \%$. What is the total percentage increase in price of scooter?
Ans

1. $32 \frac{33}{40} \%$
2. $34 \frac{21}{40} \%$
3. $30 \frac{11}{40} \%$
4. $36 \frac{31}{40} \%$
Q. 9 If areas of similar triangles $\triangle \mathrm{ABC}$ and $\triangle \mathrm{DEF}$ are $\mathrm{x}^{2} \mathrm{~cm}^{2}$ and $\mathrm{y}^{2} \mathrm{~cm}^{2}$ respectively, and $E F=\mathrm{acm}$, then BC (in $\mathrm{cm})$ is:

Ans

1. $\frac{y^{2}}{a^{2} x^{2}}$
2. $\frac{\mathrm{y}}{\mathrm{ax}}$
$\frac{a x}{y}$
3. $\frac{a^{2} x^{2}}{y^{2}}$
Q. 10 The average of the marks of 25 students in a class, in an examination was calculated to be 19. Later, the teacher realized that the marks of two students were taken as 18 and 19 respectively, instead of 14 and 15 . Find the new actual average marks of the class.

Ans
$\times 1.17 .43$
X2. 16.56
3. 18.68
$\times 4.17 .65$
Q. 11 Simplify $\mathrm{x}^{9} \times \mathrm{x}^{5} \times \mathrm{x}^{-4} \times \mathrm{x}^{0} \times \mathrm{x}^{-6}$.

Ans

1. $x^{4}$
2. $\mathrm{X}^{-4}$
3. $\mathrm{X}^{-6}$
4. $x^{6}$
Q. 12 The value of $\left(\sin 30^{\circ} \cos 60^{\circ}-\cos 30^{\circ} \sin 60^{\circ}\right)$ is equal to:

Ans

1. $-\cos 30^{\circ}$
2. $-\sin 30^{\circ}$
3. $\cos 30^{\circ}$
4. $\sin 30^{\circ}$
Q. 13 What is the ratio of the mean proportional between 1.6 and 3.6 and the third proportional of 5 and 8 ?

Ans
X1.2:15
2. $5: 16$
3. $3: 16$
4. $4: 15$
Q. 14 The difference between the cost price and selling price of a pair of shoes is Rs.1,200. If the profit is $15 \%$, the selling price is:

Ans
X 1.Rs.8,200
2. Rs.9,200
$\times 3$. Rs.8,000
4. Rs.9,000
Q. 15 A person lent certain sum of money at the annual rate of 25 percent on simple interest. In 6 years the interest amounted to Rs. 360 more than the sum lent. What is the sum lent?

Ans
< 1. Rs. 600
2. Rs. 360
3. Rs. 720
4. Rs. 540
Q. 16 The side of an equilateral triangle is 12 cm . What is the radius of the circle circumscribing this equilateral triangle?

Ans
$\times 1.6 \sqrt{3} \mathrm{~cm}$
2. $4 \sqrt{3} \mathrm{~cm}$
$\times 3.9 \sqrt{3} \mathrm{~cm}$
X4. $5 \sqrt{3} \mathrm{~cm}$
Q. 17 The following table shows the number of different items in different shops and their respective selling prices per unit.

| Shops | Total No. of | AC : Cooler | Selling Price per unit |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Items | $:$ Fan | Cooler | AC | Fan |
| A | 5000 | $4: 5: 1$ | 8000 | 25000 | 8500 |
| B | 1800 | $3: 2: 4$ | 10000 | 20000 | 16000 |
| C | 3400 | $6: 4: 7$ | 6000 | 42000 | 15000 |
| D | 3600 | $4: 2: 3$ | 12000 | 32000 | 8000 |
| E | 4000 | $5: 1: 4$ | 8000 | 26500 | 12200 |
| F | 1210 | $2: 4: 5$ | 11000 | 28000 | 11100 |

Find the percentage of total revenue which comes from Cooler from shop E, considering all given items are being sold from shop E and from all the given shops only given three items are being sold. (Rounded off to three decimal places)

Ans

1. $4.226 \%$
$\times 2.3 .516 \%$
X 3. $10.45 \%$
X4.8.910\%
Q. 18 The following table shows the marks (in percentages) obtained by six students in four different subjects in an
examination. Maximum marks in each subject are 100 .

| Student | SUBJECT |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | SST | PHYSICS | CHEMISTRY | MATHS |
| A | 92 | 90 | 90 | 80 |
| B | 90 | 80 | 85 | 85 |
| C | 80 | 80 | 65 | 70 |
| D | 85 | 80 | 82 | 75 |
| E | 80 | 75 | 75 | 85 |
| F | 90 | 90 | 90 | 85 |

Answer the following question based on the table:
What is the number of students whose overall percentage obtained is $80 \%$ and above?
Ans

1. 4
2. 5
3. 2
4. 3
Q. 19 The table given below shows the number of persons participating in a survey from 6 different states.

| States | Persons |
| :---: | :---: |
| S1 | 100 |
| S2 | 200 |
| S3 | 400 |
| S4 | 500 |
| S5 | 600 |
| S6 | 800 |

What is the ratio of number of person participating in a survey from state S3 to the number of person participating in a survey from state S4?
Ans
X1.3:5
X2.5:4
$\times 3.4: 3$

* $4.4: 5$
Q. 20 What is the remainder when 8127 is divided by 8 ?

Ans
$\times 1.5$

- 2.7
$\times 3.4$
$\times 4.6$
Q. 21 A, B and C can complete a piece of work separately in 10,20 and 40 days, respectively. In how many days will the work be completed if $A$ is assisted by both $B$ and $C$ every third day?

Ans

1. $8 \frac{2}{7}$
2. 9
$\times 3.10 \frac{2}{3}$
$\times 4.6$
Q. 22 What is $\sin \alpha-\sin \beta$ ?

Ans

1. $2 \cos \frac{\alpha+\beta}{2} \sin \frac{\alpha-\beta}{2}$
2. $2 \sin \frac{\alpha+\beta}{2} \sin \frac{\alpha-\beta}{2}$
$\times$ 3. $2 \cos \frac{\alpha-\beta}{2} \sin \frac{\alpha+\beta}{2}$
X4. $2 \cos \frac{\alpha+\beta}{2} \cos \frac{\alpha-\beta}{2}$
Q. 23 A hemisphere of lead of radius 4 cm is cast into a right circular cone of height 72 cm . What is the radius of the base of the cone?

Ans
$\times 1.1 .63 \mathrm{~cm}$
X 2.1 .35 cm
2. 1.33 cm
$\times 4.1 .45 \mathrm{~cm}$
Q. 24 If the angles of a triangle are $(x-46)$ degrees, $(x+96)$ degrees and $8 x$ degrees, then what is the value of $2 x$ ?

Ans

1. 15 degrees
2. 24 degrees
3. 26 degrees
4. 13 degrees
Q. $25 O$ is the centre of this circle. Tangent drawn from a point $P$, touches the circle at $Q$. If $P Q=24 \mathrm{~cm}$ and $O Q=10 \mathrm{~cm}$, then what is the value of $O P$ ?

Ans
X 1.26 cm
2. 52 cm
3.13 cm
$\times 4.15 \mathrm{~cm}$

Section : English Comprehension
Q. 1 Select the option that expresses the given sentence in passive voice.

Priya washes her clothes in the evening.
Ans
Х 1. The clothes was washed by Priya in the evening.
$X$ 2. The clothes is washed by Priya in the evening.
3. The clothes are washed by Priya in the evening.
4. The clothes were washed by Priya in the evening.
Q. 2 Select the option that contains a grammatical error in the underlined portion.

It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.
Ans
X1. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.
X 2. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them

X 3. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.
4. It would be impossible for them to continue living in this world if each of them knew
exactly what fate had it store for them.
Q. 3 Select the most appropriate option to fill in the blank.

The doctor directed the nurse to administer an $\qquad$ medicine to the patient.
Ans
X 1. official
$X$ 2. eminent
3. alternative
4. insightful
Q. 4 Select the option that can be used as a one-word substitute for the given group of words.

A piece of a living tissue or plant that is transplanted surgically
Ans
X 1. Gratis
X 2. Gourmet
X 3. Gracious
2. Graft
Q. 5 Select the correct active form of the given sentence. The clothes will be delivered by the shop on Monday.
Ans $\quad$ 1. The shop will be delivering the clothes on Monday.
2. The shop will deliver the clothes on Monday.

X 3. The shop would be delivering the clothes on Monday.
X 4. The shop would deliver the clothes on Monday.
Q. 6 Select the most appropriate ANTONYM of the underlined word. Failure to carry hall ticket to the exam is considered as a trivial issue.
Ans
X 1. underrated
X 2. kind
3. problematic
4. serious
Q. 7 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. A panther is reported to have broken into a house yesterday in search of food and shelter.
B. The villagers heard his cries and ran to the house but the scared animal had run away through the window by then.
C. It secretly slouched into a room where a young man named Johnny was sleeping, who suddenly woke up and realised that the beast was roaming around his bed.
D. Just as the panther was about to leap on him, he swiftly shot out of bed and hid in a closet.
Ans
$X 1$. ABDC
$\times 2$. BDCA
3. ACDB

X4. DCAB
Q. 8 Select the INCORRECTLY spelt word.

Ans

1. Peircing

X 2. Sleek
X 3. Pie
X 4. Itch
Q. 9 Select the most appropriate option to fill in the blank.

If you try to do something every day you will $\qquad$ progress.
Ans
X 1. hold
X 2. get

- 3. make

X 4. catch
Q. 10 Select the most appropriate synonym of the given word.

## Competent

Ans
X 1. Complex
2. Poor
3. Capable
4. Beginner
Q. 11 Choose the correct meaning of the given idiom.

In weal and woe
Ans

1. In sad and gloomy days
2. In happiness and good times
3. In prosperity and adversity

X 4. In despair and failure
Q. 12 Select the most appropriate synonym of the given word.

## Announce

Ans
X 1 . Denounce
X 2. Secret
X 3. Hide
4. Advertise
Q. 13 Rearrange the parts of the sentence in correct order.

While physical movement
P. activities may not require physical
Q. is important for children, all learning
R. the part of teachers and students
S. movement and facial expressions on

Ans $\times 1$.PRQS
X 2. RSPQ
X 3. QSRP
4. QPSR
Q. 14 Select the most appropriate meaning of the given idiom.

A green horn
Ans

1. Uneducated person
2. Inexperienced person
3. Clever person
4. Skilled person
Q. 15 Select the correct direct form of the given sentence.

He said that something might be missing in there.
Ans

1. He said, "Something may be missing in here."

X 2. He said, "Something had to be missing in there."
X 3. He said, "Something is been missing in here."
4. He said, "Something could be missing in here."
Q. 16 Select the sentences that contains no spelling errors.

Ans $\times 1$. Many communities in the world still feel that their voices and position has been dissenfranchised.
X 2. Many communities in the world still feel that their voices and position has been dysenfranchised.
X 3. Many communities in the world still feel that their voices and position has been dysenfrenchized.
4. Many communities in the world still feel that their voices and position has been disenfranchised.
Q. 17 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. They also wore felt caps to cover their ears.
B. They wore trousers tucked into leather boots.
C. This place was famous for its skilful archers and horsemen.
D. In the $5^{\text {th }}$ and $4^{\text {th }}$ centuries BC, today's south Ukraine was known as Scythia.

Ans
X 1. BCDA
X 2. CBDA
X 3.ABCD
4. DCBA
Q. 18 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

He used to reply / that the only place / for which he went / was the town library.
Ans
X 1. was the town library
2. for which he went
$\times 3$. He used to reply
X 4. that the only place
Q. 19 Select the most appropriate synonym of the underlined word in the given sentence.

The sporadic instructions of the invigilators distracted the examinee.
Ans
X 1. Continuous
2. Indirect
3. Repetitive
4. Occasional
Q. 20 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Rajan is having three brothers and three sisters.
Ans
X 1. Rajan has been having
2. Rajan has

X 3. Rajan was having
X 4. Rajan having

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 $\qquad$ affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.
$X 1$. hindered
X 2. disconnected
3. dreary
4. savvy

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 $\qquad$ affinity to various platforms on the internet. However, one skill that has been 3 $\qquad$ affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

1. their

X 2. they're
3. dare
4. there

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 $\qquad$ affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. thoroughly
2. through
3. holistically
4. daily

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 $\qquad$ affinity to various platforms on the internet. However, one skill that has been 3 $\qquad$ affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. passive
2. active
3. distinctive
4. demonstrative

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 $\qquad$ affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. sympathisers
2. empathisers
3. donors
4. characters

Combined Graduate Level Examination Tier I 2022

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| Exam Date | 02/12/2022 |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 In the following question, select the missing number from the given series.

111, 222, 444, ?, 1776, 3552
Ans

1. 999
2. 888
3. 1780
4. 1770
Q. 2 Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.
Ans
5. IDAY
6. SNJH
7. QLHF
8. VQMK
Q. 3 By interchanging the given two signs and numbers which of the following equation will be correct?

+ and -, 2 and 4
Ans

1. $9-5 \div 4 \times 2+8=80$
2. $7 \times 4-2 \div 1+5=13$
$3.7-8 \div 2+16 \times 4=18$
$4.5+7 \times 4-8 \div 2=5$
Q. $4 R+S$ means ' $R$ is the daughter of $S$ '
$R=S$ means ' $R$ is the father of $S$ '
$R \div S$ means ' $R$ is the wife of $S$ '
$R \times S$ means ' $R$ is the brother of $S$ '
$E \div F \times J+L=M$, then how is $L$ related to $E$ ?
Ans
$X 1$. Father
$\times 2$. Wife
3. Father-in-law
4. Brother
Q. 5 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
8: 496 :: ? : 204 :: 9 : 711
Ans
$\times 1.5$
5. 13
6. 6
7. 11
Q. 6 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
$(25,9,56)$
$(13,14,183)$
Ans
X 1. $(42,12,228)$
X 2. $(11,16,135)$
X 3. $(19,23,511)$
8. $(27,15,198)$
Q. 7 Select the correct mirror image of the given figure when the mirror is placed at $A B$
as shown.


A
$E$
$E$
$E$
$E$
$B$
Ans

$\times 4$.

Q. 8 Select the correct combination of mathematical signs to sequentiallyreplace the * signs and balance the given equation.
17 * 11 * 42 * 2 * $7=18$
Ans
$\times 1 .-+\div \div$
2. $-+x \div$
(3. $-+x \times$

人4.+-+x
Q. 9 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation.
Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
1.3-44

X2.4-64
X 3.5-125
4. 6-216
Q. 10 By interchanging the given two signs which of the following equation will be not correct?

+ and -
Ans
-1. $18 \div 3+8 \times 5-4=30$
X2. $4 \times 6+7-3 \div 1=20$
X $3.18+8 \times 6 \div 3-11=13$
X $4.6 \times 9+7-8 \div 2=51$
Q. 11 Which letter-cluster will replace the question mark (?) to complete the given series?

CZNM, FXOL, IVPK, ?, ORRI
Ans
X 1. LSQJ
X 2. LTRK
X 3. LSQK
4. LTQJ
Q. 12 If $A+B$ means that $A$ is the brother of $B, A \times B$ means that $A$ is the sister of $B, A \div B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the brother of $R$ ?
Ans
X1. $P+Q \div R$
2. $P+Q \times R$

X 3. $\mathrm{P} \times \mathrm{Q}+\mathrm{R}$
X4. $P+R \times Q$
Q. 13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

## FDcAL5

M — N
Ans
xEDCもJ?
$x^{2}$ Э DC $\forall \Gamma$ 「


Q. 14 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All bears are rabbits.
All rabbits are dogs.
Some dogs are black.
Conclusions.
I-Some rabbits are black.
II- Some dogs are bears.
III- All bears are dogs.
Ans

1. Only conclusions II and III follow.
2. Only conclusions I and II follow.

X 3. All conclusions follow.
4. Only conclusions I and III follow.
Q. 15 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Cloth : Closet :: Gun : ?
Ans

1. Armoury
2. Almirah
3. Bullet
4. Chest
Q. 16 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(30, 93, 1)
(42, 132, 2)
Ans
X 1. $(4,60,5)$
X $2 .(5,31,29)$
X 3. $(14,20,25)$
5. $(3,30,7)$
Q. 17 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Sparrows: Tree
Ans
X 1. Cow: Beach
6. Fish: Water

X 3. Owl : Night
4. Rabbit : Sand
Q. 18 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ACC, UZD, OWE, ITF, ?
Ans
X 1. REN
2. CRM
3. CMR
4. CQG
Q. 19 In a certain code language, 'GHOST' is written as 'ONGCB' and 'ABIDE' is written as 'UTMRQ'. How will 'RULES' be written in that language?
Ans
X 1. DAKQD
X 2. DAJQD
3. DAJQC

X 4. WZQJX
Q. 20 Select the figure that will come next in the following series.


Ans

$\times 4 . \quad \times \Delta=$
Q. 21 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 3 '.



Figure 1
Figure 2
Figure 3
Ans
$\times 1.5$
$\times 2.4$

- 3.1
$\times 4.6$
Q. 22 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans
$\times 1$
D $\Delta$
$\xi$
$\times 2$

$\times 3$


- 4. 


Q. 23 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some $L$ are $R$.
II. Some A are R.

Conclusion:
I. All A are L.
II. All $R$ are $L$.

Ans
X 1. Only conclusion I follows
2. Neither conclusion follows
3. Only conclusion II follows
4. Both conclusions I and II follows
Q. 24 In a certain code language, 'EARLY' is written as 'ZNSCF' and 'GAUGE' is written as 'FIVCH'. How will 'INBOX' be written in that language?

Ans
X 1. YQCQJ
2. JPCQY
3. YQCPJ
4. XPBOI
Q. 25 After arranging the given words according to dictionary order, which word will come at 'Third' position?

1. Sickle
2. Sickly
3. Sick
4. Sicken
5. Sickness

Ans
X 1. Sick
2. Sickle
3. Sicken
4. Sickly

Section: General Awareness
Q. 1 Who among the following is known as a pioneering dance educationist and a prominent Mohiniyattam exponent?

Ans
X 1. Madhavi Mudgal
2. Shagun Butani
3. Mohanrao Kallianpurkar
4. Dr Kanak Rele
Q. 2 According to Mendeleev's periodic table, what was the atomic mass of Eka-aluminium which was later replaced by Gallium?

Ans
$\times 1.95$
2. 83
3. 68
$\times 4.50$
Q. 3 What is the outermost layer found in the cell envelope of the bacterial cell called?

Ans

1. Glycocalyx
2. Cell membrane
3. Plasma membrane
4. Cytoplasm
Q. 4 Which of the following Indian classical dance forms uses various colours on face to symbolise the characters?

Ans
X 1. Odissi
2. Kathakali
3. Bharatanatyam
4. Mohiniattam
Q. 5 President Droupadi Murmu has appointed Dr. Justice Dhananjaya Yashwant Chandrachud as the $\qquad$ Chief Justice of India.
Ans

1. 50th
2. 51st
3. 48th
4. 49th
Q. 6 Which Part of the Constitution of India reflects the Fundamental Duties?

Ans
X 1. Part X
2. Part XII
3. Part IV-A
4. Part IX-B

## Q. 7 When did the Mongol ruler Genghis Khan die?

Ans
X 1.1219
$\times 2.1210$
$\times 3.1235$
4. 1227
Q. 8 How many maximum electrons can $M$ shell have?

Ans

1. 18
2. 8
3. 1
<4.2
Q. 9 Merchants and migrants first brought the teachings of the holy Quran to India in the
$\qquad$
Ans
X 1. fourth
4. seventh
$\times 3$. ninth
X 4. sixth
Q. 10 In 1955, which synthetic element is provisionally named Mendelevium in honor of Dmitri Mendeleev, who created one of the first periodic tables?
Ans
X 1. Element 90
5. Element 101
6. Element 103
7. Element 106
Q. 11 In Trans - Siberian railway system Vladivostoclies on $\qquad$ coast.
Ans
X 1. Atlantic
X 2. Antarctic
$\times$ 3. Arctic
8. Pacific
Q. 12 The crop area under high yielding varieties of which amongst the following crop grew considerably during the Green Revolution?

Ans

1. Sugarcane
2. Pulses
3. Oilseeds
4. Wheat
Q. 13 Who has become the 12th Chief minister of Uttarakhand?

Ans
$X 1$. Biren Singh
2. Pramod Sawant
3. Bhagwant Singh Mann
4. Pushkar Singh Dhami
Q. 14 Which of the following statement is correct?
I. The nutrition requirements of adolescents are higher than adult.
II. Adolescents are generally grouped in the age group of 10 to 19 years.

Ans $X$ 1. Only II
2. Both I and II

X 3. Neither I nor II
4. Only I
Q. 15 Which Article of the Constitution separates the judiciary from the executive?

Ans
X 1. Article 143
2. Article 50

X 3. Article 144
X 4. Article 74
Q. 16 What do you call a component of identical size that offers a higher resistance to electricity?
Ans

1. Poor conductor

X 2. Semi- conductor
X 3. Good conductor
4. very good conductor
Q. 17 In which of the following months did the Australian Open take place in 2022?

Ans

1. February
2. March
3. January
4. April
Q. 18 Which of the following is celebrated as the "Tibetan New Year"?

Ans
X 1. Lohang
2. Losar
3. Myoko
4. Murung
Q. 19 Which layer of atmosphere helps in radio transmission?

Ans
X 1. Exosphere
2. Thermosphere
3. Mesosphere
4. Stratosphere
Q. 20 In Table Tennis, how many lets are allowed in a row on a serve?

Ans
$X 1$. Three
2. Unlimited
$\times 3$. Two
4. One
Q. 21 The value of GDP at the current prevailing prices is called $\qquad$ .

Ans

1. nominal GDP
2. current GDP
3. domestic GDP
4. real GDP
Q. 22 During which of the following period Ostriches were found in India?

Ans
X 1. Mesolithic
2. Chalcolithic

X 3. Neolithic
4. Palaeolithic
Q. 23 The Maharashtra Department of Prisons has launched a loan scheme for inmates serving sentences in jails across the state. This credit scheme is titled $\qquad$ -
Ans

1. Jivhala
2. Kishore
3. Sukanya
4. Swavlamban
Q. 24 In which state is the Maihar court where Baba Allauddin Khan was a musician?

Ans
X 1. Tripura
X 2. Uttar Pradesh

- 3. Madhya Pradesh

X 4. Chhattisgarh
Q. 25 Which company has set up a factory on the banks of river Hugli in 1651?

Ans
X 1. Danish
2. Portuguese
3. English
4. French

Section : Quantitative Aptitude
Q. 1 If the ratio of corresponding sides of two similar triangles is $\sqrt{ } 3: \sqrt{ } 2$ then what is the ratio of the area of the two triangles?
Ans

- $1.3: 2$
$\times 2.9: 4$
$\times 3 . \sqrt{ } 3: \sqrt{ } 2$

4. $27: 8$
Q. 2 Various expenditures incurred by a publishing company for publishing a book in 2018 are given in the following pie-chart. Study the chart and answer the question.

Expenditures of the company


Price printed on a book is $15 \%$ above the cost price. If the price printed on a book is $₹ 942$, then the cost of paper for a single copy in ₹ is (rounded off to one decimal place)
Ans

1. ₹122.9
2. ₹ 188.5

X 3 . ₹ 182.5
X4. ₹ 220.6
Q. 3 In a 100-m race, A beats B by 20 m and $B$ beats $C$ by 20 m . By how much distance does A beat C .

Ans
$\times 1.64 \mathrm{~m}$
2. 24 m
3. 25 m
4. 36 m
Q. 4 If one man or two women or four boys or five girls can finish a work in 39 days, then how many days will one man, one woman, one boy and one girl together take to finish the same work?
Ans
$\times 1.40$
$\times 2.10$
$\times 3.30$
-4. 20
Q. 5 The value of $\cot 15^{\circ} \cot 25^{\circ} \cot 45^{\circ} \cot 75^{\circ} \cot 65^{\circ}$ is:

Ans

1. 1
2. $\sqrt{3}$
3. 2
4. $\sqrt{2}$
Q. 6 In triangle $P Q R$, right angled at $Q$, if $\cot P=\sqrt{3}$, then the value of $\sin P$ is:

Ans
$\times 1.1$
2. $\frac{1}{\sqrt{3}}$
3. $\frac{\sqrt{3}}{2}$
4. $\frac{1}{2}$
Q. 7 The difference of two numbers is 1564. After dividing the larger number by the smaller, we get 6 as quotient and 19 as remainder. What is the smaller number?
Ans
$\times 1.456$
$\times 2.287$
$\times 3.623$

- 4.309
Q. 8 If $a+b+c=6, a^{2}+b^{2}+c^{2}=14$ and $a b+b c+c a=11$, then what is the value of $a^{3}+b^{3}+c^{3}-3 a b c$ ?

Ans $\times 1.31$
$\times 2.12$

- 3.18
$\times 4.42$
Q. 9 The length of the tangent to a circle from a point $P$ is 15 cm . Point $P$ is 17 cm away from the centre. What is the radius of the circle?
Ans
$\times 1.7 \mathrm{~cm}$
$\times 2.9 \mathrm{~cm}$
3.8 cm
$\times 4.4 \mathrm{~cm}$
Q. 10 Side of an equilateral triangle is 24 cm . What will be the radius of in circle of this equilateral triangle?
Ans
$\times 1.6 \mathrm{~cm}$

2. 12 cm

- 3.8 cm
$\times 4.3 \mathrm{~cm}$
Q. 11 The radius of a right circular cylinder is five times of its height. If the height of the cylinder is 3.5 cm , then what is the volume of cylinder?
Ans

1. $3368.75 \mathrm{~cm}^{3}$
2. $3872.75 \mathrm{~cm}^{3}$
3. $3146.75 \mathrm{~cm}^{3}$
4. $3524.25 \mathrm{~cm}^{3}$
Q. 12 In an election between two candidates, $12 \%$ of voters did not cast their votes. The winner by obtaining $68 \%$ of the total votes defeated his contestant by 2880 votes. What was the total number of voters who cast their votes in the election?

Ans

1. 5280
2. 8000
3. 4000
4. 6000
Q. 13 A cuboid of length 36 m , breadth 18 m and height 9 m is melted and recast into a cube. Find the length of the diagonal of the cube.

Ans

1. $18 \sqrt{3} \mathrm{~m}$
2. $15 \sqrt{3} \mathrm{~m}$
3. $12 \sqrt{3} \mathrm{~m}$
4. $17 \sqrt{3} \mathrm{~m}$
Q. 14 The following table shows the number of delivery partners (in thousands) who joined five different companies during six different years.

| Year | Companies |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Emazon | Clipkart | Twiggy | Tomato | Pyntra |
| 2016 | 2.4 | 4.5 | 1.2 | 0.9 | 4.2 |
| 2017 | 1.8 | 5.4 | 1.5 | 1.2 | 5.6 |
| 2018 | 3.2 | 7.2 | 2.4 | 2.1 | 6.3 |
| 2019 | 3.9 | 5.6 | 2.8 | 2.7 | 6.5 |
| 2020 | 4.2 | 6.4 | 3.2 | 3.3 | 7.0 |
| 2021 | 5.0 | 7.2 | 3.6 | 3.6 | 7.2 |

Find the percentage increase in the number of delivery partners that joined Pyntra from 2017 to 2021.
Ans
X 1. $26.57 \%$
2. $25.87 \%$
$\times 3.27 .58 \%$

- 4. $28.57 \%$
Q. 15 Simplify the following.

$$
\frac{762 \times 762 \times 762+316 \times 316 \times 316}{762 \times 762-762 \times 316+316 \times 316}
$$

Ans
$\times 1.1064$
X2. 1056
$\times 3.1042$
4. 1078
Q. 16 The price of some wooden furniture increases by $65 \%$ when it passes through three hands. If the first and second sellers made a profit of $20 \%$ and $25 \%$, respectively, then find the profit percentage of the third seller.
Ans

1. 10\%
2. 12.5\%
3. $16 \%$
4. 8\%
Q. 17 What is the ratio of the fourth proportional of $2,5,6$ and the fourth proportional of 6,8 , 9?

Ans $\times 1.3: 2$
<2.5:3
3. $3: 4$
4. $5: 4$
Q. 18 If a man travels at $\frac{1}{\mathrm{x}} \mathrm{km} / \mathrm{h}$ on a journey and returns at $\frac{1}{\mathrm{x}^{2}} \mathrm{~km} / \mathrm{h}$, then his average speed for the journey is:

Ans
$\times 1 . \frac{x+1}{x^{2}}$
2. $\frac{2}{x+x^{2}}$

X3. $\frac{1}{x+x^{2}}$
<4. $\frac{2 \mathrm{x}^{2}}{\mathrm{x}+1}$
Q. 19

If $\mathrm{k}^{4}+\frac{1}{\mathrm{k}^{4}}=194$, then what is the value of $\mathrm{k}^{3}+\frac{1}{\mathrm{k}^{3}}$ ?
Ans
$\times 1.42$

- 2.52
$\times 3.36$

4. 18
Q. 20 The HCF of two numbers 2040 and 391 is:

Ans

1. 17
$\times 2.21$
$\times 3.16$
2. 18
Q. 21 What annual instalment will discharge a debit of ₹ 5,664 in 4 years at $12 \%$ simple interest?
Ans
X 1. ₹1,230
X 2. ₹1,210

- 3. ₹ 1,200

X4. ₹1,220
Q. 22 The table given below shows the production of five companies in two years.

|  | Years |  |
| :---: | :---: | :---: |
| Company | Y1 | Y2 |
| A | 50 | 100 |
| B | 90 | 120 |
| C | 30 | 80 |
| D | 80 | 50 |
| E | 20 | 40 |

$\mathrm{J} 1=$ The average production of A in year Y 1 and Y 2 . $\mathrm{J} 2=$ Sum of production of $\mathrm{B}, \mathrm{C}$ and D in year Y1 and Y2. What is the value of ( $\mathrm{J} 2 / \mathrm{J} 1$ )?
Ans
$\times 1.4$
$\times 2.5$
$\times 3.3$

- 4.6
Q. 23 Study the given table and answer the question that follows.

Find the difference between the number of female students and male students who opted biology in school C.

| School name | Total number of students <br> enrolled | Percentage of enrolled <br> students, opted Biology | Ratio of male to female <br> students who opted Biology |
| :--- | :--- | :--- | :--- |
| A | 900 | 30 | $7: 8$ |
| B | 400 | 38 | $9: 10$ |
| C | 1000 | 24 | $1: 2$ |
| D | 800 | 18 | $5: 7$ |

Ans

1. 240
2. 160
3. 200
4. 80
Q. 24 How far will the tip of a 2 cm -long minute hand of a clock move in 45 minutes?

Ans
X $1 . \pi \mathrm{cm}$
2. $3 \pi \mathrm{~cm}$
3. $4 \pi \mathrm{~cm}$
4. 2 m cm
Q. 25 Sunil purchased a fan at a $10 \%$ discount on the labelled price. If he had purchased it at a $15 \%$ discount, he would have saved ₹ 400 . Find the labelled price of the fan.

Ans

1. ₹8,400
2. ₹7,500
з. ₹800
3. ₹8,000

Section : English Comprehension
Q. 1 Select the option that can be used as a one-word substitute for the given group of words/phrase.

Adjust or make right; correct, amend
Ans
X 1. Recruit
2. Recreate
3. Recourse
4. Rectify
Q. 2 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
Be it a chaat or a refreshing lemonade, lemon is the need of the hour in $\qquad$ summers.
Ans

1. banging
2. freezing
3. scorching
4. alleviating
Q. 3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

They will go to bed / early since they / have to get up / at five on the morning.
Ans
X 1. have to get up
2. at five on the morning

X 3. They will go to bed
4. early since they
Q. 4 Select the sentence with the appropriate use of preposition.

Ans

1. It has been raining till morning.

X 2. It has been raining from morning.
$\times$ 3. It has been raining by morning.
4. It has been raining since morning.
Q. 5 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Our office is in the $2^{\text {nd }}$ floor of the skyscraper.
Ans
$\times 1$. is for the $2^{\text {nd }}$ floor
2. is on the $2^{\text {nd }}$ floor
$\times 3$ is with the $2^{\text {nd }}$ floor
4. is at the $2^{\text {nd }}$ floor
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

Having or showing an excessively high opinion of one's appearance, abilities, or worth
Ans
X 1 . Superior
2. Vain
$\times$ 3. Otiose
X 4. Domineering
Q. 7 Select the most appropriate option to complete the given sentence. One must learn to $\qquad$ a line between one's private and professional life.
Ans

1. draw

X 2. catch
X 3. bring
4. get
Q. 8 Select the option that can be used as a one-word substitute for the given group of words.

The date when both, day and night are of approximately equal length
Ans
X 1. Equilibrium
2. Equine
3. Equator
4. Equinox
Q. 9 Select the most appropriate meaning of the given idiom.

Beat around the bush
Ans
X 1. Avoid praising someone and demean
2. Avoid the main point by talking in a roundabout way
3. Avoid saying what you mean, usually because it is not funny
4. Avoid using foul words to make someone uncomfortable
Q. 10 Select the INCORRECTLY spelt word.

Ans
$X$ 1. Belief
2. Beneth
$X$ 3. Belly
X 4. Bellow
Q. 11 Select the most appropriate ANTONYM of the underlined word.

Regardless of their diversity, all flowers have a uniform function, the reproduction of the species through the production of seed.
Ans
X 1. Melancholy
2. Equilibrium
3. Affinity
4. Uniformity
Q. 12 Select the most appropriate synonym of the underlined word in the following sentence.
Visiting a book fair always fills my heart with a great satisfaction.
Ans
X 1. refreshment
2. pride
3. contentment
4. bliss
Q. 13 Select the correct active form of the given sentence.

Was the message given by him?
Ans
$\times 1$. Was he given the message?
2. Does he give the message?
$\times$ 3. Did he gave the message?
4. Did he give the message?
Q. 14 Select the most appropriate synonym of the given word.

Deliberate
Ans
X 1. Casual
X 2. Hasty
3. Planned

X 4. Rushed
Q. 15 Select the correct indirect form of the given sentence.

She said, "She must leave all the bad habits."
Ans
$\times 1$. She said she has to leave all the bad habits
2. She said that she must have leave all the bad habits
3. She said that she had to leave all the bad habits.
4. She said that she could leave all the bad habits
Q. 16 Select the most appropriate synonym of the given word.

Magnify
Ans

1. Expand
2. Magnanimous
3. Miniature
4. Underemphasise
Q. 17 Choose the incorrectly spelt word.

Ans
$X$ 1. Clemency
2. Avariciuos

X 3. Hegemony
4. Nostalgic
Q. 18 Select the option that expresses the given sentence in passive voice.

All his friends laughed at him.
Ans $\quad \times 1$. He became laughable to his friends.
2. He was laughed at by all his friends.
$X 3$. His friends were being laughed at by him.
X 4. All his friends were laughing at him.
Q. 19 Select the option that can be used as a one-word substitute for the given group of words.

One who has the ability to do many different things
Ans

1. Versatile
2. Adaptable
3. Expert
4. Specialist
Q. 20 Rearrange the parts of the sentence in correct order.

There are
P. reports that toy shops and other
Q. to prepare for the Christmas rush
R. non-food retailers are struggling to
S. get enough stock into their warehouses

Ans $\times 1 . \mathrm{RPSQ}$
2. PRSQ

X 3. SQRP
4. QRPS

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Memory loss, with aging, is (1) $\qquad$ a natural and normal (2) $\qquad$ . The symptoms range from forgetting simple daily life activities and (3) $\qquad$ familiar tasks such as driving or baking. However, there can be several other factors (4) $\qquad$ for it and these vary from person to person. Memory loss can be (5) $\qquad$ or total depending upon the condition.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. consider
X 2. denied
3. regard
4. considered

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Memory loss, with aging, is (1) $\qquad$ a natural and normal (2) $\qquad$ . The symptoms range from forgetting simple daily life activities and (3) $\qquad$ familiar tasks such as driving or baking. However, there can be several other factors (4) $\qquad$ for it and these vary from person to person. Memory loss can be (5) $\qquad$ or total depending upon the condition.

SubQuestion No : 22
Select the most appropriate option to fill in blank number 2.
Ans
X 1. trial
X 2. type
X 3. method
4. process

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Memory loss, with aging, is (1) $\qquad$ a natural and normal (2) $\qquad$ . The symptoms range from forgetting simple daily life activities and (3) $\qquad$ familiar tasks such as driving or baking. However, there can be several other factors (4) $\qquad$ for it and these vary from person to person. Memory loss can be (5) $\qquad$ or total depending upon the condition.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans $\times 1$. prospering
X 2. acknowledging
X 3. rectifying
4. performing

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Memory loss, with aging, is (1) $\qquad$ a natural and normal (2) $\qquad$ . The symptoms range from forgetting simple daily life activities and (3) $\qquad$ familiar tasks such as driving or baking. However, there can be several other factors (4) $\qquad$ for it and these vary from person to person. Memory loss can be (5) $\qquad$ or total depending upon the condition.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $\times 1$. commendable
2. responsible

X 3. affluent
X 4. significance

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Memory loss, with aging, is (1) $\qquad$ a natural and normal (2) $\qquad$ . The symptoms range from forgetting simple daily life activities and (3) $\qquad$ familiar tasks such as driving or baking. However, there can be several other factors (4) $\qquad$ for it and these vary from person to person. Memory loss can be (5) $\qquad$ or total depending upon the condition.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans

1. partial
2. partially
3. completely
4. incomplete

Combined Graduate Level Examination Tier I 2022

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Section: General Intelligence and Reasoning
Q. 1 Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the one that is different.
Ans
X 1. SQO
X 2. YWU
X 3. MKI

- 4. GED
Q. 2 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).


Ans
$\times 1$

$\times 2$

$\checkmark 3$.

$\times 4$.

Q. 3 In a certain code language, 'feel at home' is coded as ' 424 ', 'check the laundry' is coded as '537' and 'open the door' is coded as '434'. How will 'the kite is flying' be coded in that language?
Ans
X 1.2315
2. 3251
3. 4362
4. 3426
Q. 4 Select the figure that will replace the question mark (?) in the following figure series.


Ans
$\times 1$.

$\times 2$.


- 3. 


$\times 4$

Q. 5 Which letter-cluster will replace the question mark (?) to complete the given series?

MBTN, KCSP, IDRR, ?, EFPV
Ans
X 1. GERT
2. GEQT

X 3. GEQU
X 4. GEQS
Q. 6 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be
performed. Breaking down 13 into 1 and 3 and then performing mathematical
operations on 1 and 3 is not allowed)
Ans
X 1. (405-400-395)
- 2. (700-690-685)

X 3. (550-545-540)
4. $(620-615-610)$
Q. 7 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
LMR, PUA, TCJ, XKS, ?
Ans
$\times 1 . \mathrm{CMQ}$
X 2. ARA
3. SMR
4. BSB
Q. 8 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.

## M

s d w $9773 \quad q \quad a$

Ans

## 

${ }_{x=}$ d $\varepsilon$ 「 $\mathrm{x}_{\mathrm{w}} \mathrm{w}$ b


Q. 9 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1-Kinglet
2- Kingship
3- Kingdom
4- Kinsfolk
5- Kingly
Ans
( $1.1,3,2,5,4$
2. $3,1,2,5,4$
3. 1, 3, 5, 2, 4
4. 3, 1, 5, 2, 4
Q. 10 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
687 : 612 :: 713 : ? :: 621 : 546
Ans
$\times 1.656$
$\times 2.674$
X 3.662

- 4.638
Q. 11 In a certain code language, 'EAGER' is written as 'AEHRE' and 'GIRLS' is written as 'IGSSL'. How will 'ISSUE' be written in that language?
Ans
X 1. ISTEU
X 2. ISTUE

3. SITEU

X4.ISSEU
Q. 12 By interchanging the given two signs which of the following equation will be not correct?

- and $x$

Ans
X1. $5-6 \times 3+16 \div 4=31$
2. $11+6 \times 3-8 \div 2=5$
3. $7 \times 8+4 \div 2-6=11$
4. $7 \times 2+27 \div 9-4=18$
Q. 13 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

Q. 14 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the
word)
Hen : Coop
Ans
X 1. Horse: Field
2. Bee : Hive

X 3. Elephant: Leaves
4. Cow: Hay
Q. 15 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 2$.

$\times 3$.


- 4. 


Q. 16 If $A \times B$ means that $A$ is the father of $B, A-B$ means that $A$ is the mother of $B, A \div B$ means that $A$ is the brother of $B$ then which of the following expression shows that $P$ is the father of $R$ ?

Ans
$X 1 . P \div Q \times R$
2. $P \times Q \div R$

X 3. $\mathrm{P} \times \mathrm{Q}-\mathrm{R}$
X4. $\mathrm{P} \times \mathrm{R} \div \mathrm{Q}$
Q. 17 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits.)
$(3,2,35)$
$(1,4,65)$
Ans

1. $(7,2,351)$
2. $(3,2,31)$
3. $(5,4,41)$
4. $(6,8,224)$
Q. 18 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All A are R.
II. All $R$ are $C$.

Conclusions:
I. All A are C.
II. Some $R$ are $A$.
III. No $C$ is $R$.

Ans $\times 1$. All conclusion follows
X 2. Both conclusions II and III follows
X 3. Both conclusions I and III follows
4. Both conclusions I and II follows
Q. 19 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Knife : Cut :: Ladle : ?
Ans
X 1. Chop
2. Serve
$\times 3$. Slice
X4. Spread
Q. 20 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
$25 * 5 * 10 * 2 * 13$
Ans
$\times 1 . \div, \times,-,=$
X2. $\div,-,+,=$
X $3 . \times,+,-,=$
4. $\div,+,-,=$
Q. 21 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All tomatoes are peas.
Some peas are potatoes.
All potatoes are fruits.
Conclusions:
I. Some tomatoes are potatoes.
II. Some fruits are potatoes.
III. Some peas are fruits.

Ans $\times 1$. All conclusions follow.
X 2. Only conclusions I and III follow.
3. Only conclusions II and III follow.
4. Only conclusions I and II follow.
Q. 22 ' $A$ @ $B$ ' means ' $A$ is the husband of $B$ '.
' $A$ \& $B$ ' means ' $A$ is the father of $B$ '.
' $A$ \# $B$ ' means ' $B$ is the son of $A$ '.
If $K$ \# L \& M @ N \# P, then how is $P$ related to $K$ ?
Ans

- 1. Father

X 2. Son
X 3. Son's son
4. Son's son's son
Q. 23 By interchanging the given two signs which of the following equation will be not correct?

- and $\div$

Ans

1. $20 \times 8-4 \div 2+7=50$

人2. $35-5+8 \div 4 \times 3=3$
3. $10+8 \times 6-4 \div 2=20$

X $4.12-4+11 \times 3 \div 8=28$
Q. 24 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row: 18, 9, 27
Second row: 40, 36, 140
Third row: 40, 13,?
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
$\times 1.53$
$\times 2.54$

- 3.25
$\times 4.45$
Q. 25 Which of the following numbers will replace the question mark (?) in the given series? 29, 33, ?, 113, 369

Ans
$\times 1.55$
$\times 2.51$
< 3.54
4. 49

Section : General Awareness
Q. 1 Which of the following players is associated with boxing?

Ans
X 1. Archana Kamat
2. Lovlina Borgohain
3. Hima Das
4. Monica Batra
Q. 2 Who among the following Indian music directors won the Best Original Score at Amsterdam International Film Festival in 2022?
Ans
X 1.A.R.Rahman
2. Santosh Narayanan

X 3. Harris Jayaraj
2. Ilaiyaraaja
Q. 3 In 2015, the Planning Commission was replaced with the $\qquad$ .
Ans $\times 1$. Monetary Policy Committee
X 2. Competition Commission of India
X 3. NaBFID
4. NITI Aayog
Q. 4 Which of the following is an organic compound with the formula $\mathrm{CH}_{3} \mathrm{OC}_{6} \mathrm{H}_{5}$ used as a perfume, fragrance and solvent?
Ans

1. Anisole
2. Toluene

X 3. Acetophenone
4. Aniline
Q. 5 $\qquad$ in a particular direction is velocity.

Ans

1. Acceleration

X 2. Displacement
3. Speed

X 4. Distance
Q. 6 Birju Maharaj was awarded which of the following awards in 2012?

Ans $\quad$ 1. Sangam Kala Award
2. Filmfare Award
3. National Film Award
4. Sangeet Natak Akademi Award
Q. 7 Which of the following is commonly known as Quicklime?

Ans
$X$ 1. $\mathrm{CaSO}_{4}$
$\times$ 2. $\mathrm{CaCl}_{2}$
$\times$ 3. $\mathrm{Ca}(\mathrm{OH})_{2}$

- 4. CaO
Q. 8 Which road plan in India was the first attempt for the Road Development Programme between 1943-1963?

Ans

1. Poona Road Plan
2. Nagpur Road Plan
3. Bombay Road Plan
4. Lucknow Road Plan
Q. 9 In August 2022, the "SMILE-75 Initiative" was launched by Ministry of Social Justice \& Empowerment. What is the objective of this scheme?
Ans
Х 1. To provide education and training to the weaker sections of the society
5. To improve immunisation coverage for children and pregnant women in India
6. To accelerate the development of biopharmaceuticals
7. To make our cities/town and municipal areas begging-free.
Q. 10 In which year were the $73^{\text {rd }}$ and $74^{\text {th }}$ amendments passed by the Parliament?

Ans
X 1.1989
2. 1992
$\times 3.1990$
$\times 4.1995$
Q. 11 Roshan Kumari is an exponent of which Indian classical dance form?

Ans

1. Kathak

X 2. Odissi
X 3. Bharatanatyam
X 4. Kathakali

## Q. 12 Where is the Sair-E-Gul Faroshan festival held?

Ans $\times 1$. Mussoorie
2. Mumbai
3. Delhi
4. Shimla
Q. 13 Where and when will the fourth edition of the Winter Youth Olympic Games be held?

Ans
X 1. 2024 Nanjing
X 2. 2026, Dakar
X 3. 2023 Buenos Aires
4. 2024 Gangwon
Q. 14 According to census 2011, which is the least populous state in India?

Ans
X 1. Nagaland
2. Sikkim
3. Arunachal Pradesh
4. Goa
Q. 15 Dadabhai Naoroji was a $\qquad$ -.
Ans

1. Businessman
2. Doctor
3. Soldier
4. British Officer
Q. 16 Vetti tax that is mentioned in the inscriptions of the Chola dynasty was taken in $\qquad$ form.

Ans
X 1. Crops
2. Land revenue
3. Cash
4. Forced labour
Q. 17 Which of the following statements is correct?

Ans

1. Water is a cyclic resource.
2. Water has only one state.
3. Water a non-renewable resource.
4. Water is a biotic resource.
Q. 18 The Chinese Buddhist pilgrim, Xuan Zang, came to the Indian subcontinent about
$\qquad$
Ans
-1. 1100
5. 1700
6. 2000
7. 1400
Q. 19 Identify an example of decomposers that are found in the bottom of a pond.

Ans
X 1. Zooplankton
2. Jellyfishes
3. Flagellates
4. Phytoplankton
Q. 20 The $\qquad$ is a set of written rules that are accepted by all people living within a country.
Ans
X 1. Writ
2. Document
3. Constitution
4. Bill
Q. 21 Which of the following is NOT an advantage of E-Commerce?

Ans
X 1. Cost saving and price reduction
2. Late response to customer needs
3. Wider choice
4. Improved customer services
Q. 22 Who has been appointed as the Director General, National Centre for Good Governance (NCGG) in September 2022?

Ans
X 1. Tarun Kapoor
2. Rajiv Bahl
3. Pralay Mondal
4. Bharat Lal
Q. 23 Sultan Mahmud of Ghazni was a contemporary of which Chola king?

Ans
X 1. Rajaraja I
X 2. Rajendra II
X 3. Rajadhiraja
4. Rajendra I
Q. 24 In April 2022, which scheme was selected for PM's Award for Excellence in Public Administration?

Ans
$X$ 1. Smile
X 2. Beti Bachao Beti Padhao
3. UDAN

X 4. Make in India
Q. 25 The Sunderban delta is the home of which of the following animal?

Ans
X 1. Asiatic Cheetah
X 2. Asiatic Lions
3. Royal Bengal Tiger

X 4. Black Panther

## Section : Quantitative Aptitude

Q. 1 By selling a car for Rs. $2,78,000$, a dealer gains $25 \%$. If the profit is reduced to $18 \%$, then the selling price will be:

Ans

1. Rs.2,62,432
2. Rs.2,65,432
3. Rs. $2,72,432$
4. Rs.2,60,432
Q. $2 A$ and $B$ together can do a piece of work in 50 days. If $A$ is $40 \%$ less efficient than $B$, in how many days can A working alone complete $\mathbf{6 0 \%}$ of the work?
Ans
$\times 1.70$
$\times 2.110$

- 3.80
$\times 4.105$
Q. 3 The following pie chart shows the spending of a country on tourism in various states during the year 2012.

Total spending of the country $=₹ 49,62,000$
Chart showing spending of a country on tourism in various
states during the year 2012


The amount spent on state together D1 and D4 exceeds that spent on together D2 and D8 by:
Ans
X 1. ₹ $1,89,760$
X 2. ₹1,97,890

- 3. ₹ $1,98,480$

X 4. ₹ $1,78,960$
Q. 4 In the given figure, $\mathrm{AB}=\mathrm{DB}$ and $\mathrm{AC}=\mathrm{DC}$. If $\angle \mathrm{ABD}=58^{\circ}$ and $\angle \mathrm{DBC}=(2 \mathrm{x}-4)^{\circ}, \angle \mathrm{ACB}=(\mathrm{y}+15)^{\circ}$ and $\angle \mathrm{DCB}=63^{\circ}$, then the value of $2 x+5 y$ is:


Ans
$\times 1.325$
2. 273
$\times 3.259$
$\times 4.268$
Q. 5 Three numbers are in the ratio of $2: 3: 5$ and their LCM is 90 . Find their HCF.

Ans
X 1.9
< 2.1
$\times 3.6$
4. 3
Q. 6 Study the given table and answer the question that follows.

The table shows the number of customers for different services in different cities.

| City $\rightarrow$ <br> Services $\downarrow$ | X | Y | Z |
| :--- | :--- | :--- | :--- |
| A | 250 | 175 | 350 |
| B | 220 | 190 | 240 |
| C | 260 | 200 | 270 |
| D | 245 | 185 | 330 |

In which service is the average number of customers per city the highest?
Ans
$X 1$.c

- 2.A
$X 3$. D
- 4. B
Q. 7 On simple interest a sum of ₹ 640 becomes ₹ 832 in 2 years. What will ₹ 860 become in 4 years at the same rate of simple interest?
Ans
X 1. ₹ 1,250

2. ₹ 1,376

X 3 . ₹ 1,426
人4.₹1,150
Q. 8 If $x+\frac{1}{x}=8$, then find the value of $\frac{5}{x^{2}-8 x+2}$.

Ans
$\times 1.3$
2.4
3. 0
4.5
Q. 9 The average weight of 49 students in a class is 39 kg . Seven of them whose average weight is 40 kg leave the class and other seven students whose average weight is 54 kg join the class. What is the new average weight (in kg ) of the class?
Ans

1. 41
2. 39
3. 42
4. 40
Q. 10

Study the table given below and answer the questions that follows.

| Countries | Number of Tests | Positive cases | Number of patients for <br> Ventilators |
| :---: | :---: | :---: | :---: |
| The US | 14000 | $12 \%$ | $20 \%$ |
| Spain | 12000 | $8 \%$ | $12.5 \%$ |
| Italy | 10000 | $12 \%$ | $16 \%$ |
| China | 10000 | $11 \%$ | $15 \%$ |

According to the table given above, which country has the maximum number of positive cases?
Ans

1. The US
2. China
3. Spain
4. Italy
Q. 11 If $\tan \mathrm{A}+\cot \mathrm{A}=2$, then the value of $2\left(\tan ^{2} \mathrm{~A}+\cot ^{2} \mathrm{~A}\right)$ is:

Ans
$\times 1.1$
2. 4
3.2
4. 3
Q. 12 A shopkeeper gives two successive discounts on a watch marked ₹ 2,750 . The first discount given is $10 \%$. If the customer pays ₹ $2,103.75$ for the watch, then what is the second discount?

Ans

1. $15 \%$
2. $30 \%$

X 3. $12 \%$
X4. $10 \%$
Q. 13 Which of the following numbers are divisible by 2,3 and 5 ?

Ans
X 1.5467760
$\times 2.1345678$
3. 2345760
-4. 2456732
Q. 14 Two trains $P$ and $Q$ start from stations $S$ and $T$ towards each other. Train $P$ takes 4 hours 48 minutes and train $Q$ takes 3 hours 20 minutes to reach $T$ and $S$, respectively, after they meet. If the speed of train $P$ is $45 \mathrm{~km} / \mathrm{h}$, what is the speed of train $Q$ ?
Ans
X $1.48 \mathrm{~km} / \mathrm{h}$
X $2.50 \mathrm{~km} / \mathrm{h}$

* $3.54 \mathrm{~km} / \mathrm{h}$
$4.55 \mathrm{~km} / \mathrm{h}$
Q. 15 If $\frac{(1-\cos \theta)}{\sin \theta}=\frac{1}{5}$, then what will be the value of $\frac{(1+\cos \theta)}{\sin \theta}$ ?

Ans
1.5
$\times 2.2 / 5$
X $3.4 / 5$
$\times 4.1 / 5$
Q. 16
${ }_{11} \mathrm{~K}+\frac{1}{\mathrm{~K}}=3$, then what is the value of $\frac{1}{\mathrm{~K}^{3}}+\mathrm{K}^{3}$ ?
Ans
$\times 1.36$
$\times 2.10$

- 3.18
$\times 4.54$
Q. 17 In the given figure, a square $A B C D$ is inscribed in a quadrant $A P C Q$. If $A B=16 \mathrm{~cm}$, find the area of the shaded region
(take $\pi=3.14$ ) correct to two places of decimal.


Ans

1. $155.98 \mathrm{~cm}^{2}$
2. $179.68 \mathrm{~cm}^{2}$
3. $163.85 \mathrm{~cm}^{2}$
4. $145.92 \mathrm{~cm}^{2}$
Q. 180 is the incentre of the triangle $P Q R$. If angle $P O R=140$ degree, then what is the angle PQR?
Ans $\times 1.40$ degree
5. 140 degree
6. 100 degree
7. 70 degree
Q. 19 If the side of an equilateral triangle is 20 cm , then what is its area?

Ans
$\times 1.110 \sqrt{3} \mathrm{~cm}^{2}$
$\times 2.125 \sqrt{3} \mathrm{~cm}^{2}$
$\times$ 3. $200 \sqrt{3} \mathrm{~cm}^{2}$
4. $100 \sqrt{3} \mathrm{~cm}^{2}$
Q. 20 Which of the following statement is correct?
I. The value of $100^{2}-99^{2}+98^{2}-97^{2}+96^{2}-95^{2}+$
$94^{2}-93^{2}+$ $\qquad$ $+2^{2}-1^{2}$ is 5050 .
II. If $8 x+\frac{8}{x}=-16$ and $x<0$, then the value of $x^{197}+x^{-197}$ is 2 .

Ans

1. Only 1

X 2. Only II
X 3. Both I and II
X 4. Neither I nor II
Q. 21 If $\sin A=\frac{4}{5}$ and $\sin B=\frac{15}{17}$, what is the value of $\sin (A-B)$ ?

Ans
$\times 1 .-\frac{32}{45}$
2. $-\frac{13}{85}$
3. $\frac{13}{85}$
$\times 4 . \frac{32}{45}$
Q. 22 From the circumcentre L of $\triangle \mathrm{XYZ}$, perpendicular LM is drawn on side YZ . If $\angle \mathrm{YXZ}=60^{\circ}$, then the measure of $\angle \mathrm{YLM}$ is:

Ans

1. $60^{\circ}$
$\times 2.120^{\circ}$
$\times 3.180^{\circ}$
$\times 4.90^{\circ}$
Q. 23 The number of books on Mathematics, Physics and Chemistry in a University library is in the ratio $8: 5$ : 9. There is a proposal to increase these books by $10 \%, 5 \%$ and $5 \%$ respectively. What will be the ratio of the number of books after increment?
Ans
X 1.212:117:47
X 2. 37:47:83

- $3.176: 105: 189$

X4.189:115:117
Q. 24 Ratio between the present ages of $A$ and $B$ is $2: 3$, respectively. After 5 years, the ratio between their ages will be $3: 4$. What is B's age at present?
Ans
X 1.20 years
2. 15 years
3. 10 years
4. 25 years
Q. 25 Who scored the least marks in aggregate of all the subjects?

| Name of the student | SUBJECT |  |  |
| :---: | :---: | :---: | :---: |
|  | English | Hindi | Maths |
| A | 54 | 65 | 67 |
| B | 52 | 88 | 78 |
| C | 48 | 48 | 67 |
| D | 41 | 87 | 60 |
| E | 74 | 70 | 55 |

Ans
X1. D
X2. E
$\times 3$.A
4. C

Section : English Comprehension
Q. 1 Select the most appropriate collocating word to fill in the blank.

After having understood the ill effects, he said he would $\qquad$ drinking alcohol.
Ans

1. quit

X 2. finish
$X$ 3. close
X 4. terminate
Q. 2 Select the most appropriate synonym of the given word.

Remorse
Ans

1. Repentance
2. Slow
3. Liberate
4. Affinity
Q. 3 Select the most appropriate word for the underlined word in the given sentence.

Rajesh was angry at himself for making a silly mistake during the examination.
Ans
X 1. for
$\times 2$. on
X 3. above
4. with
Q. 4 Rectify the sentence by selecting the correct spelling of the underlined word.

I would never ascociate with such a person.
Ans

1. associate

X 2. accosiate
X 3. assosiate
4. asosiate
Q. 5 Select the most appropriate ANTONYM of the underlined word.

The number of tests conducted dropped further on Saturday with a total of 67,624 tests of which $20 \%$ were the less precise rapid antigen tests.
Ans
X 1. Complicated
X 2. Inevitable
3. Rough

X 4. Adequate
Q. 6 Select the most appropriate meaning of the underlined segment in the given sentence.

By the end of the football match, feelings had reached fever pitch.
Ans
$X 1$. in or to many places
2. to get so strong that one cannot control them

X 3. be extremely serious and worrying
X 4. start well
Q. 7 Select the option that can be used as a one-word substitute for the given group of words.

A speech made without preparation
Ans

1. Extempore
2. Rhetoric
3. Deliberation
4. Spontaneous
Q. 8 Select the most appropriate meaning of the given idiom.

To smell a rat
Ans

1. To have reason to know the presence of a rat
2. To have reason to suspect
3. To know the smell of a rat
4. To learn the smell of a rat
Q. 9 Select the correct indirect form of the given sentence.

Priya said, "Yes, I am confounded."
Ans
X 1. Priya admitted that she was confound.
X 2. Priya admit that she was confounded.
3. Priya admitted that she was confounded.
$\times 4$. Priya admitted that she is confounded.
Q. 10 Select the correct passive form of the given sentence.

People speak Cantonese in Hong-Kong.
Ans $\quad$ 1. Cantonese was spoken in Hong-Kong.
2. Cantonese is spoken in Hong-Kong.

X 3. Cantonese was spoken in Hong-Kong by people.
4. Cantonese is being spoken in Hong-Kong.
Q. 11 Parts of the following sentence have been given as options. Select the option that contains an error.

She, often, accuses him for a lack of morality.
Ans
$\times 1$. She often
X 2. a lack of morality
3. No error

X4. accuses him for
Q. 12 Choose the incorrectly spelt word.

Ans $\times 1$. Professional
X 2. Dubious
3. Nefarious
4. Consumate
Q. 13 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

We live in a populated country of 120 million people.
Ans
X 1. congested
X 2. dense
3. populous

X 4. No substitute
Q. 14 Rearrange the parts of the sentence in correct order.

According to the report,
P. the 2021 projections reflect growing
Q. recognition of climate change issues
R. and the importance of nuclear power in
$S$. reducing emissions from electricity generation
Ans $\times 1$. QRSP
2. QPRS
3. PSQR
4. PQRS
Q. 15 Select the most appropriate ANTONYM of the underlined word in the context of its meaning in the sentence.

A few chocolates were left after the Halloween's trick or treat fair.
Ans
X 1. stayed
2. finished

X 3. right
X 4. present
Q. 16 Select the most appropriate option to fill in the blank.

The patient was $\qquad$ from the hospital.
Ans
X 1. liberated
2. discharged

X 3. let out
4. released
Q. 17 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. Many deadwood beetle species recycle the nutrients of woodlands.
Q. Some deadwood beetles are predators or parasitoids to other insect species and restrict population growth of potential pests.
R. Others have recently been found to be pollinators.
S. Working alongside fungi, bacteria and other invertebrates, they break down dead wood and return the nutrients back to the soil.

Ans

1. PSQR
2. RPSQ
3. PRQS
4. QPRS
Q. 18 Select the option that expresses the given sentence in active voice.

The keys have been forgotten by Jyoti.
Ans
X 1. Jyoti will have forgotten the keys.
2. Jyoti had forgotten the keys.
3. Jyoti has been forgetting the keys.
4. Jyoti has forgotten the keys.
Q. 19 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

There was no denying the fact / that King Lear confided to / his daughter Cordelia / more than anybody else.

Ans

1. that King Lear confided to
2. There was no denying the fact
3. more than anybody else.
4. his daughter Cordelia
Q. 20 Select the most appropriate ANTONYM of the given word.

Polite
Ans

1. Rude
2. Civil
3. Decent
4. Sober

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Little (1) $\qquad$ a year ago, Rama Rao went out of work when a gramophone company, of which he was the Malgudi agent, went out of existence. He had put into that agency the little money he had (2) $\qquad$ as security. For five years his business brought him (3) money, just enough to help him keep his wife and children in good comfort. And one day, it was (4) $\qquad$ . A series of (5) $\qquad$ in the world of trade, commerce, banking, and politics was responsible for it.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
$\times 1$. while
X 2. beyond
X 3. about
4. over

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Little (1) $\qquad$ a year ago, Rama Rao went out of work when a gramophone company, of which he was the Malgudi agent, went out of existence. He had put into that agency the little money he had (2) $\qquad$ as security. For five years his business brought him (3) money, just enough to help him keep his wife and children in good comfort. And one day, it was (4) $\qquad$ . A series of (5) $\qquad$ in the world of trade, commerce, banking, and politics was responsible for it.

SubQuestion No: 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. converted
$\times$ 2. exchanged
3. inherited

X 4. gambled

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Little (1) $\qquad$ a year ago, Rama Rao went out of work when a gramophone company, of which he was the Malgudi agent, went out of existence. He had put into that agency the little money he had (2) $\qquad$ as security. For five years his business brought him (3) money, just enough to help him keep his wife and children in good comfort. And one day, it was (4) $\qquad$ . A series of (5) $\qquad$ in the world of trade, commerce, banking, and politics was responsible for it.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

- 1. enough

X 2. much
X 3. a few
X4. few

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Little (1) $\qquad$ a year ago, Rama Rao went out of work when a gramophone company, of which he was the Malgudi agent, went out of existence. He had put into that agency the little money he had (2) $\qquad$ as security. For five years his business brought him (3) money, just enough to help him keep his wife and children in good comfort. And one day, it was (4) $\qquad$ . A series of (5) $\qquad$ in the world of trade, commerce, banking, and politics was responsible for it.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. a wild goose chase
$X$ 2. a snake in the grass
X 3. a bone of contention

- 4. a bolt from the blue


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Little (1) $\qquad$ a year ago, Rama Rao went out of work when a gramophone company, of which he was the Malgudi agent, went out of existence. He had put into that agency the little money he had (2) $\qquad$ as security. For five years his business brought him (3) money, just enough to help him keep his wife and children in good comfort. And one day, it was (4) $\qquad$ A series of (5) $\qquad$ in the world of trade, commerce, banking, and politics was responsible for it.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. instructions
2. circumstances
$X$ 3. questions
$X 4$. lectures

Combined Graduate Level Examination Tier I 2022

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| Candidate Name | Www.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Chitoura Road |
| Exam Date | 02/12/2022 |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 Which letter cluster will replace the question mark (?) to complete the given series? abCD, fgHI, ?, stUV, abCD

Ans
X 1. kIMO
2. ImNO
3. mnOP
4. InMO
Q. 2 Which of the following numbers will replace the question mark (?) in the given series?

2, 4, 10, 28, ?, 244
Ans
$\times 1.94$
2. 90
3. 88
4. 82
Q. 3 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(4,13,5)$
$(3,12,6)$
Ans
X 1. $(4,10,3)$
X 2. $(7,16,3)$
X $3 .(5,17,6)$
4. $(5,17,7)$
Q. 4 A \# $B$ means ' $A$ is the sister of $B$ '.
$A$ @ $B$ means ' $A$ is the son of $B$ '.
$A$ \& $B$ means ' $A$ is the father of $B$ '.
$A \% B$ means ' $A$ is the mother of $B$ '.
If $\mathbf{W} @ \mathbf{Q} \% \mathrm{~T} \& \mathrm{Y} @ \mathrm{M} \% \mathrm{~K}$, then how is Q related to K ?
Ans
X 1. Daughter
2. Father's mother
3. Mother
4. Mother's mother
Q. 5 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
Some fingers are toes.
Some toes are rings.
Some rings are hands.
Conclusions:
I. Some hands are toes.
II. Some rings are fingers.
III. Some hands are fingers.
IV. Some fingers are rings.

Ans

1. None of the conclusions follow
2. Only conclusions III and IV follow

X 3. Only conclusions II and III follow
4. Only conclusions I and II follow
Q. 6 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

$\times 2$

Q. 7 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 8 By interchanging the given two signs which of the following equation will be not
correct?

+ and -
Ans
X $1.8 \div 4 \times 6+5-9=16$
X2. $15+3 \times 4-6 \div 2=6$

2. $3 \times 2-72 \div 6+8=18$

X4. $3+4-2 \times 5 \div 1=9$
Q. 9 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
HERO : JGPM :: FLOW : HNMU :: DIAL : ?
Ans
X 1. KYFJ
X 2. JFYK
X 3. FLIJ
4. FKYJ
Q. 10 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, HGLO, OLUZ, VQDK, ?
Ans
X 1.RTQV
X 2. CYQR
X 3. CMVQ
4. CVMV
Q. 11 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All A are D.
II. No $D$ is $E$.

Conclusions:
I. No $E$ is $A$.
II. All D are A.
III. All E are D.

Ans

1. Only conclusion I follows
2. Only conclusion III follows
3. Only conclusion II follows
4. Neither conclusion follows
Q. 12 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits.)
$(4,25,6)$
$(8,25,3)$
Ans $\quad$ ⒈ $(3,81,6)$
5. $(7,22,3)$
6. $(12,96,8)$
7. $(14,55,4)$
Q. 13 By interchanging the given two signs and numbers which of the following equation will be correct?
$x$ and $\div, 7$ and 9
Ans
X1.9-7×2+6 $\div 3=11$
8. $9+4 \times 3-7 \div 1=40$
9. $8 \times 3 \div 6+9-7=14$
$4.9 \times 3+4 \div 2-7=18$
Q. 14 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1. $(600-300-150)$

2. (400-200-50)

X 3. (1000-500-250)
X4. (200-100-50)
Q. 15 If $A-B$ means that $A$ is the mother of $B, A+B$ means that $A$ is the father of $B, A \div B$ means that $A$ is the sister of $B$, then which of the following expression shows that $P$ is the aunt of $Q$ ?
Ans
$X 1 . P+R \div Q$
2. $P \div R+Q$
3. $P \div R-Q$
4. $R \div P-Q$
Q. 16 उस विकल्प का चयन करें, जो तीसरे शब्द से उसी प्रकार संबंधित है, जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है।
(शब्दों को अर्थपूर्ण अँग्रेजी/हिंदी शब्दों के रूप में माना जाना चाहिए और इन्हें शब्द में अक्षरों की संख्या / व्यंजनों की संख्या / स्वरों की संख्या के आधार पर एक दूसरे से संबद्ध नहीं किया जाना चाहिए।)
पांडा : बांस :: कोआला : ?
Ans
X1. छाल
X 2. घास
3. यूकेलिप्टिस
4. मछली
Q. 17 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

3.

$\times 4$.

Q. 18 Select the option figure in which the given figure ( X ) is embedded as its part (rotation is NOT allowed).


Ans

$\times 2$

$\times 3$.

$\times 4$

Q. 19 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.


Ans
$x_{1} d \mathbf{d} \boldsymbol{m} \boldsymbol{\varepsilon} \boldsymbol{\varepsilon} \boldsymbol{k} \boldsymbol{y}$

$x^{3} b$ m m 3 DK त
${ }^{x+b} \boldsymbol{b}$ m $\mathrm{e} \boldsymbol{\varepsilon} \boldsymbol{\operatorname { D r g }}$
Q. 20 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
10:45:: 6 : 25 :: 9 :?
Ans
$\times 1.38$
$\times 2.36$
$\times 3.42$

- 4.40
Q. 21 In a certain code language, 'NUMERICAL' is written as 'ICALRNUME' and 'SCATTERED' is written as 'EREDTSCAT'. How will 'EXPLOSION' be written in that language?

Ans
X 1. SIONOXEPL
2. SIONOEXPL
3. SIONOXELP
4. SIONOEXLP
Q. 22 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

Ans

1. WDLF
2. YBXR
3. PKSM
4. IRMT
Q. 23 In a certain code language, 'BYE' is coded as ' 245 ' and 'OLA' is coded as ' 265 '. How will 'CAR' be coded in that language?

Ans
X 1.280
$\times 2.285$

* 3.295
$\times 4.300$
Q. 24 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
65 * 45 * 25 * 5 * 35 * 60
Ans
X1.,,,,$-+-+=$
Х $2 .+, \times,+,-,=$
3.,,,,$+-+-=$
4.,,$-+ \div,+,=$
Q. 25 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1- Laudanum
2- Lattice
3- Laudation
4- Latterly
5- Laudable
Ans

1. $2,4,5,3,1$
2. $2,4,1,5,3$
3. $4,2,3,1,5$
4. $4,2,5,1,3$

Section: General Awareness
Q. 1 The Comptroller and Auditor General of India is a:

Ans
X 1. two-member body
$X$ 2. three-member body
3. single-member body
4. six-member body
Q. 2 Which of the following led English company in Battle of Plassey (1757)?

Ans
X 1. Lord Dalhousie
X 2. Captain Hodson
X 3. Warren Hastings
4. Robert Clive
Q. 3 As the river enters the plain it twists and turns forming large bends known as $\qquad$ .
Ans $\times 1$. ox-bow
X 2. levees
X 3. floodplains
4. meanders
Q. 4 What does the letter 'M' stand for in the MRTP Act 1969?

Ans
X 1. Monopolistic
2. Monopolies
3. Multi
4. Monopoly
Q. 5 Harihara and Bukka established an independent state in Karnataka and established the capital city Vijayanagar on the banks of river $\qquad$ in 1336.
Ans
X 1. Betwa
2. Tungabhadra
3. Mahanadi
4. Tapi
Q. 6 Match the industrial plant with its location.

| Name of industrial Plant | Related Location |
| :--- | :--- |
| 1. BALCO | A) Burnpur |
| 2. IISCO | B) Chennai |
| 3. NFL | C) Korba |
| 4. ICF | D) Bhatinda |

Ans
X 1.1-A,2-B,3-C,4-D
X 2. 1-C,2-A,3-B,4-D
3. 1-C,2-A,3-D,4-B

X 4. 1-D,2-A,3-B,4-C
Q. 7 Identify the correct chemical formula of chloroform.

Ans

1. $\mathrm{CHCl}_{3}$
2. CHCl
3. $\mathrm{CHCl}_{2}$
4. $\mathrm{CH}_{2} \mathrm{Cl}_{2}$
Q. 8 How much percentage of oxygen is present in the atmosphere?

Ans
X 1.39\%
X $2.79 \%$
$\times 3.10 \%$
4.21\%
Q. 9 In which season is Sarhul celebrated in Jharkhand?

Ans

1. Spring
2. Autumn
$\times 3$. Monsoon
3. Winter
Q. 10 What is the average thickness of the continental crust of earth?

Ans
X 1.300 km
X 2.5 km

- 3.30 km

X 4.2 .5 km
Q. 11 Which of the following events was conducted by the Ministry of Ayush, Gol to mark the 100-day countdown to the International Day of Yoga 2022?
Ans

1. Yoga Mahotsav
2. Yoga Utsav
3. Yoga Sutra
4. Yoga Umang
Q. 12 Who moved the Objective Resolution that was later adapted as the Preamble of the Constitution of India?

Ans
X 1. Rajendra Prasad
2. JB Kripalani
3. Jawaharlal Nehru
4. BR Ambedkar
Q. 13 Which of the following pairs of musicians and their instruments is INCORRECT?

Ans

1. K Vaidyanathan - Sitar

X 2. Pt. Ram Narayan - Sarangi
X 3. Ustad Vilayat Khan - Sitar
4. Bismillah Khan - Shehnai
Q. 14 Which of the following becomes the first district in India to cover 100\% households under ABPMJAY- SEHAT scheme?
Ans

1. Samba, Jammu and Kashmir
2. Pratapgarh, Rajasthan
3. Kheda, Gujarat
4. Mansa, Punjab
Q. 15 In India census is held regularly every $\qquad$ year.
Ans
X 1.8th
5. 10th

X 3.12th
X4.5th
Q. 16 Who among the following launched the Scheme "SHRESHTA" for residential education for students in High school in Targeted Areas?
Ans

1. Virendra Kumar
2. Piyush Goel
3. Vijay Goel
4. P P Chaudhary
Q. 17 Which of the following dance forms is associated with the state of Arunachal Pradesh?

Ans
X 1. Panwariya
X 2. Dhaman

- 3. Buiya

X 4. Garba
Q. 18 The Commonwealth Games 2018 were held at which of the following places?

Ans

1. Gold coast
2. Edinburgh
3. Victoria
4. Kuala Lumpur
Q. 19 Identify the organism that is NOT a pseudocoelomate.

Ans
X 1. Ancylostoma
2. Ascaris
3. Wuchereria
4. Scorpions
Q. 20 Plan revenue expenditure relates to $\qquad$ .
I. Five-year plans
II. Salaries and pensions

Ans

1. Only I
2. Neither I nor II
3. Both I and II
4. Only II
Q. 21 The word Manuscripts derived from which of the following language?

Ans

1. Latin

X 2. Prakrit
X 3. Sanskrit
4. Greek
Q. 22 The Appropriation bill, 2022 was passed in Lok Sabha on $\qquad$ -
Ans $\times$ 1. March 24, 2022
2. February 20, 2022
3. April 20, 2022
4. May 10, 2022
Q. 23 What kind of forces arise from transient dipoles in atoms that induce transient dipoles
in nearby atoms, produce an attractive force and are significant only over short
distances ( $\sim 500 \mathrm{pm}$ )?
Ans
X 1. Dipole-dipole forces
2. London dispersion forces
3. Dipole-induced dipole forces
4. Hydrogen bond
Q. 24 Which of the following combinations of 'Ruler - Predecessor' is correct with respect to the Delhi Sultanate?

Ans

1. Alaudddin Khalji - Jalaluddin Khalji
2. Jalaluddin Khalji - Alauddin Khalji
3. Muhammad Tughluq - Firuz Shah Tughluq
4. Ghiyasuddin Tughluq - Muhammad Tughluq
Q. 25 For how many days is the Hornbill festival held?

Ans
$\times 1.5$
2. 10
$\times 3.15$
$\times 4.20$

Section : Quantitative Aptitude
Q. 1 In the given figure, a circle is inscribed in $\triangle P Q R$, such that it touches the sides $P Q, Q R$ and $R P$ at points $D, E, F$, respectively. If the lengths of the sides $P Q=15 \mathrm{~cm}, Q R=11 \mathrm{~cm}$ and $R P=13 \mathrm{~cm}$, then find the length of PD.


Ans
$\times 1.9 \mathrm{~cm}$
2. 8 cm
3. 7.5 cm
4. 8.5 cm
Q. 2 If $\cot x-\tan x=3 / 2$, then what will be the value of $\cot x+\tan x$ ?

Ans
$\times 1.3$
$\times 2.2$

- $3.5 / 2$
$\times 4.712$
Q. 3 The table given below shows the production of beauty products by five different companies.

| Companies | Production |
| :---: | :---: |
| P | 80 |
| Q | 120 |
| R | 84 |
| S | 50 |
| T | 70 |

The production of beauty product by $T$ is what percent of the production of beauty product by S ?
Ans
X 1.40 percent
2. 140 percent

X 3.240 percent
X 4. 120 percent
Q. 4

Observe the given graph and answer the following question.


How many students obtained more than 135 marks?

Ans
$\times 1.56$
$\times 2.55$
$\times 3.57$

- 4.58
Q. 5 A sum of Rs. 6,000 is to be paid back in two equal annual instalments; each instalment is to be paid at the end of every year. How much is each instalment if the interest is compounded annually at 2\% p.a.? (Rounded off up to two decimal places)
Ans
X 1. Rs.2,092.29

2. Rs.3,090.30

X 3.Rs.2,291.29
4. Rs.3,589.30
Q.6 A pen was sold for Rs.166.44 with a profit of $14 \%$. If it were sold for Rs.154.76, then what would have been the percentage of profit or loss?
Ans
X $1.5 \%$ loss
2. $6 \%$ profit
3. $5 \%$ profit
4. $6 \%$ loss
Q. 7

If $x=\frac{\sqrt{5}-2}{\sqrt{5}+2}$, then the value of $x^{2}+x^{-2}$ is:
Ans
$\times 1.350$
2. 345
3. 284
4. 322
Q. 8 The table given below shows the number of pencils sold by 7 shops.

| Shops | Pencils |
| :---: | :---: |
| S1 | 54 |
| S2 | 68 |
| S3 | 70 |
| S4 | 120 |
| S5 | 84 |
| S6 | 130 |
| S7 | 36 |

What is the ratio of number of pencils sold by $\mathbf{S 3}$ to the number of pencils sold by $\mathbf{S} \mathbf{6}$ ?
Ans
X1.8:15
2. $13: 7$
3. $15: 7$
4. $7: 13$
Q. 9

If $x>0$, and $x^{4}+\frac{1}{x^{4}}=2207$, what is the value of $x^{7}+\frac{1}{x^{7}} ?$

Ans
X 1.710649

- 2.710647
$\times 3.710654$
$\times 4.710661$


## Q. 10 Which of the following two will provide more volume?

I) A cuboid of edges $6 \mathrm{~cm}, 7 \mathrm{~cm}$ and 8 cm
II) A cube of edge 7 cm

Ans

1. Cube will have more volume
2. Both will have equal volume
3. Cuboid will have more volume
4. Cannot be determined
Q. 11 What is the single percentage discount equivalent to two successive discounts of $\mathbf{1 5 \%}$ and $5 \%$ ?

Ans
X 1. $19.00 \%$
2. $19.25 \%$

X 3. $18.00 \%$
X4.18.25\%
Q. 12

Simplify $x+3(y+x-2)-(x+y)$.
Ans
X 1. $x+2 y-6$
X 2. $2 x+y-6$
X $3.2 x+3 y-6$
4. $3 x+2 y-6$
Q. 13 A thief is noticed by a policeman from a distance of 97 m . The thief starts running and the policeman chases him. The thief and the policeman run at a speed of $21 \mathrm{~m} / \mathrm{sec}$ and $23 \mathrm{~m} / \mathrm{sec}$ respectively. What is the time taken by the policeman to catch the thief?
Ans
$\times 1.40 \mathrm{sec}$
2. 45 sec
3. 62.5 sec
4. 48.5 sec
Q. 14 If $\sec ^{2} A+\tan ^{2} A=\frac{4}{17}$, then $\sec ^{4} A-\tan ^{4} A$ is equal to:

Ans
$\times 1 \cdot \frac{13}{17}$2. $\frac{4}{13}$
3. $\frac{4}{17}$
4. $\frac{5}{17}$
Q. 15 If $\sin (A+B)=\cos (A+B)$, what is the value of $\tan A$ ?

Ans

1. $\frac{1-\tan B}{1+\tan B}$
×2. $\frac{1+\tan B}{1-\tan B}$
× 3. $\frac{1+\sec B}{1-\sec B}$
$\times 4 \cdot \frac{1-\operatorname{cosec} B}{1+\operatorname{cosec} B}$
Q. 16 If the diameter of a sphere is 63 cm , then what is the total surface area of the sphere?

Ans
$\times 1.11824 \mathrm{~cm}^{2}$
$\times 2.12836 \mathrm{~cm}^{2}$

- $3.12474 \mathrm{~cm}^{2}$
$\times 4.11248 \mathrm{~cm}^{2}$
Q.17 A circular clock has the hour hand of length 6 inch. Find the length of the distance it covers by it's tip from 9 p.m. to 3 a.m.
Ans

1. $4 \pi$ inch
2. $2 \pi$ inch
3. $6 \pi$ inch
4. $8 \pi$ inch
Q. 18 In the election, 8\% of the voters did not cast their votes. Two candidates contested the election in which the winning cadidate got $48 \%$ of the total votes and won election by 1100 votes. Find the total number of voters in the election, given that all the votes cast were valid?
Ans
X 1.25500
$\times 2.26500$

- 3.27500
< 4.28500
Q. 19 A mixture of milk and water measures 60 litres. It contains $10 \%$ water. How much water should be added to it, so that the water may be $25 \%$ ?
Ans
X 1.18 litres
X 2. 14 litres
X 3. 16 litres

4. 12 litres
Q. 20 If 6 women can complete a work in 3 days, and 9 girls can complete the same work in 2 days, then find the time taken to complete the same work by 8 women and 6 girls?
Ans
X 1.3 days
5. 4 days
6. 6 days
7. 9/7 days
Q. 21 A hemispherical bowl made of iron has inner diameter 84 cm . Find the cost of tin plating it on the inside at the rate of
$₹ 21$ per $100 \mathrm{~cm}^{2}$ (take $\pi=\frac{22}{7}$ ) correct to two places of decimal.
Ans
8. ₹ $2,328.48$
9. ₹ $2,425.48$
10. ₹ $2,425.60$
11. ₹ $2,355.48$
Q. 22 By mistake, instead of dividing ₹ 702 among Ram, Ramesh, and Naresh in the ratio $\frac{1}{3}: \frac{1}{4}: \frac{1}{6}$, it was divided in the ratio of $3: 4: 6$. Who gained the most and by how much?

Ans
X 1. Ram ₹158
2. Ramesh ₹158
3. Naresh ₹168
4. Ram ₹168
Q. 23 The pie chart given below shows the population of 8 cities in a year. Total population of all the 8 cities is $\mathbf{3 0 , 0 0 0}$. Population in a particular city is shown as a percent of total population in all these 8 cities.


What is the average population (approximately) of cities C3, C5 and C7?
Ans
$\times 1.1200$
X2. 1800
2. 1600
< 4.2000
Q. 24 What is the largest common divisor of the numbers 1026, 2268 and 2430 ?

Ans
$\times 1.108$
2. 54
$\times 3.81$
4. 27
Q. 25 If the 4-digit number $x 67 y$ is exactly divisible by 9 , then the least value of $(x+y)$ is

Ans

1. 9
$\times 2.0$

- 3.5
$\times 4.3$

Section : English Comprehension
Q. 1 Select the option that can be used as a one-word substitute for the given group of words.

## Plants of a particular region

Ans

1. Flora
2. Flinch
3. Fauna
4. Flotsam
Q. 2 Select the most appropriate option to substitute the underlined segment in the given sentence.

Abu said that he saw the picture.
Ans
X 1. he has seen the picture
X 2. he will have seen the picture
$X 3$. he would have seen the picture
4. he had seen the picture
Q. 3 Select the INCORRECTLY spelt word.

Ans $\times 1$. Texture
2. Slege
3. Savoury

X 4. Tamper
Q. 4 Select the appropriate adverb for the underlined word in the sentence.

He led me to the room that had obvious been built later than the rest of the house.
Ans
X 1. oblivously
X 2. obliviousness
X 3. obviousness

- 4. obviously
Q. 5 Select the option that can be used as a one-word substitute for the given group of words.

A shortened version of a larger work
Ans
$X$ 1. Summary
$X$ 2. Précis
X 3. Shorts
4. Abridgement
Q. 6 Complete the following collocation.

I was running late so I only had time for a $\qquad$ shower.
Ans

1. quick
2. hasty
3. fast
4. short
Q. 7 Select the correct active form of the given sentence. Her phone can't be switched off by my father.
Ans
X 1. My father switches off her phone.
X 2. My father could not switch off her phone.
X 3. My father have not switched off her phone.
5. My father can't switch off her phone.
Q. 8 Select the correct direct form of the given sentence.

Shyam asked me how I had persuaded his sister.
Ans X1. "How are you persuading my sister?" Shyam asked me.
2. "How did you persuaded my sister?" Shyam asked me.
3. "How did you persuade my sister?" Shyam asked me.
4. "How have you persuade my sister?" Shyam asks me.
Q. 9 Select the most appropriate option to fill in the blank.

The interviewees were slowly becoming impatient as they were left to $\qquad$ in the waiting room for hours.
Ans $\times$ 1. draw the long bow
2. cool their heels
$\times 3$. hold water
4. flog a dead horse
Q. 10 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
One can never imagine / how hot it gets in Delhi / unless one doesn't go / there in person.
Ans $\times 1$. One can never imagine
2. unless one doesn't go
$\times$ 3. how hot it gets in Delhi
$\times 4$. there in person.
Q. 11 Select the most appropriate ANTONYM of the word 'MOBILE' from the given sentence.

The strange TV reporter standing over there covers all the funny and interesting things happening inside the town.
Ans

1. Standing
2. Interesting
3. Inside
4. Strange
Q. 12 Select the most appropriate synonym of the given word.

Exaltation
Ans
<1. Dejection
2. Ecstasy
3. Satisfaction
4. Elaboration
Q. 13 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. Main source of water for Wular Lake is River Jhelum.
Q. Wular Lake is also said to be a remnant of Satisar Lake that existed in ancient
times.
$R$. This lake also has a small island in its centre called the 'Zaina Lank'.
S. This island was constructed by King Zainul-Abi-Din.

Ans $\times 1 . \mathrm{RPQS}$
X 2. PQRS
X 3. QSRP
4. PRSQ
Q. 14 Select the most appropriate ANTONYM of the given word. Oppose

Ans
X 1. Embody
X 2. Resist
3. Encourage
4. Elective
Q. 15 Select the most appropriate ANTONYM of the underlined word.

Technology plays an indispensable role in the lives of human beings in the $21^{\text {st }}$ century.
Ans

1. Superfluous
2. Relentless
3. Vigilant
4. Unprecedented
Q. 16 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
When there are negative and toxic thoughts $\qquad$ your mind, you can never think positively.

Ans
X 1. plotting
2. shouting
3. clouding

X 4. persuading
Q. 17 Select the most appropriate meaning of the given idiom.

## Break the ice

Ans
X 1. Make people meeting first time feel uncomfortable
$\times 2$. Make people meeting first time feel sad
X 3. Make people meeting first time feel more detached

- 4. Make people meeting first time feel more comfortable
Q. 18 Select the option that expresses the given sentence in active voice.

The wounded man was being helped by a few men.
Ans $\quad$ 1. The wounded man had been helped by a few men.
2. A few men were helping the wounded man.
$X 3$. The wounded man was helping a few men.
$\times 4$. A few men are helping the wounded man.
Q. 19 Choose the incorrectly spelt word.

Ans
$X 1$. Benign
2. Mortifeid
3. Insecurities
4. Dismay
Q. 20 Rearrange the parts of the sentence in correct order.

The continued
P. the growing sales of sneakers
Q. dominance of the athleisure trend
R. along with the pursuit of comfort
$S$. has had a significant impact on
Ans $\times 1 . \mathrm{PSRQ}$
X 2. RPSQ
X 3. QRPS
4. QSPR

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

All drivers are affected by road rage, whether they are directly or indirectly (1) $\qquad$
Individual coping qualities (2) $\qquad$ the behaviour of stressful drivers. Instead of being enraged over circumstances beyond their control, drivers (3) $\qquad$ learn to be patient. On the road, we must be (4) $\qquad$ to control our own emotions. Road raged drivers are also more likely to (5) $\qquad$ more traffic offences.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. involves
< 2. involving
3. involved
4. involve

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

All drivers are affected by road rage, whether they are directly or indirectly (1) Individual coping qualities (2) $\qquad$ being enraged over circumstances beyond their control, drivers (3) patient. On the road, we must be (4) $\qquad$ to control our own emotions. Road raged
drivers are also more likely to (5) $\qquad$ more traffic offences.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

1. influence
2. apply
3. increases
4. multiply

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

All drivers are affected by road rage, whether they are directly or indirectly (1) Individual coping qualities (2) $\qquad$ the behaviour of stressful drivers. being enraged over circumstances beyond their control, drivers (3) $\qquad$ learn to be patient. On the road, we must be (4) $\qquad$ to control our own emotions. Road raged drivers are also more likely to (5) more traffic offences.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans 1.must
2. can
3. ought
4. to

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

All drivers are affected by road rage, whether they are directly or indirectly (1) $\qquad$ _. Individual coping qualities (2) $\qquad$ the behaviour of stressful drivers. Instead of being enraged over circumstances beyond their control, drivers (3) $\qquad$ learn to be patient. On the road, we must be (4) $\qquad$ to control our own emotions. Road raged drivers are also more likely to (5) $\qquad$ more traffic offences.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. brave
2. consistent
3. able
4. oblige

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

All drivers are affected by road rage, whether they are directly or indirectly (1) $\qquad$ -.
Individual coping qualities (2) $\qquad$ the behaviour of stressful drivers. Instead of being enraged over circumstances beyond their control, drivers (3) $\qquad$ learn to be patient. On the road, we must be (4) $\qquad$ to control our own emotions. Road raged drivers are also more likely to (5) $\qquad$ more traffic offences.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1.drag
X 2. reflect

- 3. incur

4. proceed

Combined Graduate Level Examination Tier I 2022

| Roll Number | Www.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WwW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ 2 Duhai |
| Exam Date | 02/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
$(11,13,143)$
$(17,11,187)$
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOTallowed)
Ans
X 1. $(3,4,7)$
X 2. $(3,4,13)$
2. $(3,4,12)$
$\times 4 .(3,4,1)$
Q. 2 In a certain code language, 'GOLF' is coded as '44' and 'BALL' is coded as '31'. How will 'PLAY' be coded in that language?
Ans

1. 60
2. 58
3. 62
4. 56
Q. 3 Three different positions of the same dice are shown (figures 1 to 3 ). Find the number on the face opposite to the face having ' 1 '.

figure 1

figure 2

figure 3

Ans
$\times 1.3$
$\times 2.6$
$\times 3.5$

- 4.4
Q. 4 Which figure should replace the question mark (?) if the series were to be continued?


Ans

$\times 1$| $\uparrow$ |  | $\Delta$ |
| :--- | :--- | :--- |
|  | $T$ |  |
|  |  |  |
| 0 |  | $X$ |

$\times 2$.

$\times 3$.

$\checkmark 4$.

Q. 5 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

+ and $\times, 5$ and 4
l. $4+6 \times 5-7 \div 1$
II. $5 \times 3-4+8 \div 2$

Ans
X 1. $-9,-8$
X 2.30, -13
X 3.20,6
4. $27,-13$
Q. 6 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
99 * 33 * 66 * 22 * 44 * 50
Ans
X $1 . \div,+, \times,+,=$
<2.,,$+- \div,-,=$
3. $\div,+, \div,+,=$
4. $\div,-,+, \times,=$
Q. 7 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does NOT belong to that group?
Ans
X 1.EVS
2. IRP
3. VEB
(4. GTQ
Q. 8 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Fustian
2. Funerary
3. Fusion
4. Funicular
5. Fuscous
6. Fundament
7. Fuselage

Ans
X 1.6, 2, 5, 7, 3, 4, 1
X 2.6,2,5, 7, 4, 1, 3
3. $6,2,4,5,7,3,1$

X4.6,2,5,4,7,3,1
Q. $9 \quad A+B$ means ' $A$ is the father of $B$ '
$A-B$ means ' $A$ is the mother of $B$ '
$A \% B$ means ' $A$ is the brother of $B$ '
$A \& B$ means ' $A$ is the son of $B$ '
If $A+B \& C-D+E$, then how is $A$ related to $E$ ?
Ans
X 1. Father's brother
X 2. Father
X 3. Brother
4. Father's father
Q. 10 Select the option figure in which the given figure ( X ) is embedded as its part (rotation is NOT allowed).


Ans
$\times 1$.

$\times 2$

$\checkmark 3$.

$\times 4$

Q. 11 उस शब्द-युग्म का चयन कीजिए, जो ठीक उसी संबंध का निरूपण करता हो, जो संबंध दिए गए इस शब्द-युग्म में अभिव्यक्त है।
(शब्दों को अर्थपूर्ण शब्दों के रूप में माना जाना चाहिए और शब्द के अक्षरों की संख्या/व्यंजनों की संख्या/ स्वरों की संख्या के आधार पर परस्पर संबंधित नहीं होना चाहिए)
हंसिनी : हंस
Ans
X1. वयस्क : शिशु
2. जादूगरनी : जादूगर
3. बरगद : पेड़

X4. सुअर : सुअर का बच्चा
Q. 12 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.
$\left.y \mathrm{y} 92 \mathrm{bm}\right|_{\mathrm{N}} ^{\mathrm{M}}$
Ans
X1. WP Z 6 ! V
$\times$ 2. mbsei人
X 3. mbs 9 ! y
4. mdseiv
Q. 13 Which of the following letter-clusters will replace the question mark (?) in the given series?
LAT, NDR, PGP, ?, TML
Ans
X 1. SKO
< 2. RKN
X 3. SJO
4. RJN
Q. 14 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans
$\times 1$

$\times 2$

$\times 3$

4.

Q. 15 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
CONTROL : NOCTRLO :: MISTAKE : SIMTAEK :: JOURNAL : ?
Ans
X 1.AOUNRJL
X 2. OJRLAUN
X 3. JRNAOUL
4. UOJRNLA
Q. 16 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(15,9,4)$
$(7,2,3)$
Ans
X 1. $(21,12,6)$
2. $(19,13,4)$

X $3 .(24,9,11)$
X $4 .(18,7,7)$
Q. 17 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
Х 1. $(6-60-50)$

2. 7 - $70-68$ )

X 3. $(8-80-70)$
$\times 4 .(9-90-80)$
Q. 18 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
Some grasses are trees.
Some trees are branches.
Some branches are dogs.
Conclusions:
I. Some grasses are branches.
II. Some trees are dogs.
III. Some grasses are dogs.
IV. Some branches are grasses.

Ans 1. None of the conclusions follow
X 2. Only conclusions II and III follow
X 3. Only conclusions III and IV follow
4. Only conclusions I and II follow
Q. 19 By interchanging the given two signs and numbers which of the following equation will be correct?
$x$ and,+ 9 and 6
Ans

1. $7 \times 6 \div 3+9-8=17$

X2. $6 \times 8-9 \div 3+5=50$
Х $3.7+6 \times 4 \div 9-8=8$
人4.9×7+4 $\div 1-6=7$
Q. 20 In the following question, select the missing number from the given series. $345,356,368,381,395$, ?

Ans
$\times 1.409$
2. 408
3. 406
4. 410
Q. 21 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
DMT, JOB, PQJ, VSR, ?
Ans
X 1. BZY
X 2. ZYM

- 3. BUZ

X 4.BZM
Q. 22 In a certain code language, 'DENTIST' is written as 'CDMSHRS' and 'TOOTH' is written as 'SNNSG', how will 'HEALING' be written in that language?

Ans
X 1. IFBMJOH
2. GDZMJOH
3. IFBKHMF
4. GDZKHMF
Q. 23 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All A are H .
II. No $B$ is $A$.

Conclusion:
I. Some A are not B.
II. No $B$ is $H$.

Ans

1. Only conclusion II follows
2. Both conclusions I and II follows
3. Neither conclusion follows
4. Only conclusion I follows
$Q .24$ If $A \div B$ means that $A$ is the father of $B, A \times B$ means that $A$ is the mother of $B, A+B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the daughter of $P$ ?
Ans
5. $P \div Q \times R$
6. $P \div Q+R$
7. $P \times Q \div R$
8. $P+Q \div R$
Q. 25 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
21:196::29:? :: 38 : 315
Ans
9. 319
10. 252

X 3.203
(4.841

Section: General Awareness
Q. 1 Bimbavati Devi is an exponent of which Indian dance form?

Ans
X 1. Chhau
2. Manipuri
3. Kathakali
4. Odissi
Q. 2 It is the duty of every citizen to uphold and protect the $\qquad$ , unity and integrity of India.

Ans $\times 1$. autonomy
2. authority
3. sovereignty
4. privacy
Q. 3 Which of the following statements about the Vice President of India is INCORRECT?

Ans
X 1. Members of State legislatures do not take part in his elections.
$\times 2$. He acts as the ex-officio Chairman of the Rajya Sabha.
X 3. The Vice President is elected for five years.
4. He can be removed from his office by the President approved through a resolution
passed by the Lok Sabha and Rajya Sabha.
Q. 4 The Kuchipudi classical dance is accompanied with which type of music?

Ans
X 1. Kajri
X 2. Chaiti
3. Carnatic Music

X 4. Hindustani Music
Q. 5 Which Indian budget introduced a statement highlighting the gender sensitivities of the budgetary allocations?
Ans

1. 2008-09
2. 2010-11
3. 2005-06

X4. 2001-02
Q. 6 According to Union Health Ministry, a new display image, with a warning written as "Tobacco causes painful death" will be printed on tobacco products manufactured, imported, or packaged on or after $\qquad$ _.
Ans
X 1.1 January, 2023
2. 1 February, 2023
3. 1 November, 2022
4. 1 December, 2022
Q. 7 Ishwarchandra vidyasagar set up school for girls at $\qquad$ -.
Ans
X 1. Bombay
$X$ 2. Surat
X 3. Lahore
4. Calcutta
Q. 8 The proposed Rowlett Act of 1919 allowed detention of political prisoners without trial for $\qquad$ —.
Ans

1. two years
2. six months
3. two months
4. one year
Q. 9 Which of the following is correctly matched?

Ans
X 1. Kaal Baisakhi - Autumn winds
X 2. Trade winds - Winter snow storm
3. Loo-Hot wind

X 4. Loo-Winter stormy winds
Q. 10 The scheme, "Bahini", aims at providing 100 percent access to free and safe sanitary pads to secondary and senior secondary school going girls. This scheme was launched by which state government?

Ans
X 1. Bihar
2. Sikkim

X 3. Arunachal Pradesh
4. Assam
Q. 11 The Competition (Amendment) Bill, 2022 proposes to reduce the timeline for the CCI to pass an order on transactions from 210 days to $\qquad$ days.
Ans
$\times 1.140$
< 2. 180

- 3.150
$\times 4.190$
Q. 12 At present, the Grand Trunk Road extends from $\qquad$ in India.
Ans $\quad$ 1. Kashmir to Kanyakumari

2. Amritsar to Kolkata

X 3. Chennai to Kolkata
4. Agra to Kolkata
Q. 13 What is the average circumference of the standard cricket ball in international cricket?

Ans
X 1.7 .89 inches -8.45 inches
X 2. 10.46 inches -10.90 inches
3. 9.45 inches - 10.20 inches
4. 8.81 inches -9 inches
Q. 14 Which of the following festivals is known as Vijaya Utsav?

Ans

1. Hampi Festival
2. Gangasagar Mela
3. Pushkar Fair
4. Konark Dance Festival
Q. 15 The type of forests located in mid latitudinal coastal region is $\qquad$ -.
Ans
X 1. Tropical rainforest
5. Mediterranean vegetation

X 3. Monsoon forest
4. Temperate evergreen forest
Q. 16 When did Prime Minister, Narendra Modi integrate selected fitness enthusiasts of the country in the first session of 'Fit India Dialogue' as a part of the 'Fit India Movement'?
Ans
X 1. 24 September 2019
2. 24 September 2018
3. 24 September 2020
4. 24 September 2021
Q. 17 Which of the following is the most important festival celebrated by the Muslim community in India to mark the beginning of the Islamic New Year?
Ans
X 1. Milad-Un-Nabi
2. Muharram

X 3. Idu'I Zuha
X 4. Idu'l Fitr
Q. 18 In which of the following years was the Treaty of Salbai signed?

Ans
$\times 1.1817$
X 2. 1769
$\times 3.1800$
ข 4.1782
Q. 19 Limestone, chalk and marble are different forms of $\qquad$ -.

Ans $\times 1$. Calcium phosphate
2. Calcium hydroxide
3. Calcium oxide
4. Calcium carbonate
Q. 20 Which of the following is NOT correct regarding king Harshavardhana?

Ans
X 1. Harshavardhana ruled nearly about 1400 years ago
2. Xuan Zang spent a lot of time at Harsha's court
3. Harshavardhana's court poet was Harishena
4. Harshacharita is a biography written on Harshavardhana
Q. 21 For the first time the objective of self-reliance was incorporated in the $\qquad$ Five-Year Plan.

Ans

1. third
2. second
3. fifth
4. first
Q. 22 Productivity of an ecosystem is composed of which of the following?

Ans
X 1. Gross productivity and primary productivity
X 2. Primary and secondary productivity
X 3. Net productivity and consumption
4. Net primary productivity and gross primary productivity
Q. 23 How does hydrochloric acid help in facilitating the action of pepsin?

Ans 1. Hydrochloric acid creates an acidic medium which facilitates the action of the enzyme pepsin.
X 2. Hydrochloric acid helps break down pepsin.
3. Hydrochloric acid creates an alkaline medium which facilitates the action of the enzyme pepsin.
4. Hydrochloric acid creates a basic medium which facilitates the action of the enzyme pepsin.
Q. 24 In 1979, who shared the Nobel Prize with Georg Wittig for their 'development of the use of boron- and phosphorus-containing compounds, respectively, into important reagents in organic synthesis'?
Ans

1. Herbert C Brown
2. Arne Tiselius
3. Henry Taube
4. Emil Fischer
Q. 25 According to census 2011, the male literacy rate in India is $\qquad$ .
Ans
X 1.81 .14 percent
5. 82.14 percent

X 3. 84.14 percent
X 4.83 .14 percent

[^1]Q. 1 In an election between two candidates, the defeated candidate secured $42 \%$ of the valid votes polled and lost the election by $7,68,400$ votes. If 82,560 votes were declared invalid and 20\% people did NOT cast their vote, then the invalid votes were what percentage (rounded off to 1 decimal place) of the votes which people did NOT cast?
Ans
X 1. 10.6 Percent
X 2.9.8 Percent
X 3. 12.9 Percent
4.6.8 Percent
Q. 2 If the side of an equilateral triangle is 24 cm , then what is its area?

Ans
$\times 1.169 \sqrt{3} \mathrm{~cm}^{2}$
2. $125 \sqrt{3} \mathrm{~cm}^{2}$
3. $256 \sqrt{3} \mathrm{~cm}^{2}$
4. $144 \sqrt{3} \mathrm{~cm}^{2}$
Q. 3 Study the following chart and answer the question that follows.

The chart shows the quantity of substances $(\mathrm{P} 1, \mathrm{P} 2, \mathrm{P} 3)$ in different drugs $(\mathrm{A}, \mathrm{B}, \mathrm{C}$, D).


Which substance is/are most used in terms of quantity in all drugs?
Ans
X 1. P1 and P3
X 2. P3
X 3. P2
4. P1
Q. 4 Find the weighted arithmetic mean of the first ' $n$ ' natural numbers, the weights being the corresponding numbers.

Ans

$\times 2 \cdot \frac{\{n(n+1)\}}{2}$
3. $\frac{(2 n+1)}{3}$
$\times 4 . \mathrm{n}$
Q. 5 A district has $10,24,000$ inhabitants. If the population increases at the rate $\mathbf{2 . 5 \%}$ per annum, find the number of inhabitants at the end of three years.

Ans
X 1.11,20,736
2. $11,02,736$

X 3.10,75,840
X4.10,64,850
Q. 6 A takes twice as much time as $B$ and thrice as much time as $C$ to finalise a task.

Working together, they can complete the task in 8 days. The time (in days) taken by $A$,
$B$ and $C$, respectively, to complete the task is:
Ans
X 1.42,21,14
2. $60,30,20$
3. $54,27,18$
4. $48,24,16$
Q. 7

Simplify $\frac{x^{2}+2 x+y^{2}}{x^{3}-5 x^{2}}$ if $x+\frac{y^{2}}{x}=5$.

Ans
$x 1 \frac{5}{y^{2}}$
$\times 2 . \frac{7}{y^{2}}$
x $3 .-\frac{5}{y^{2}}$
ง. $-\frac{7}{y^{2}}$
Q. 8 If the diameter of a hemisphere is 28 cm , then what is the volume of hemisphere?

Ans
$1.5749 .33 \mathrm{~cm}^{3}$
$\times 2.6349 .22 \mathrm{~cm}^{3}$
$3.6728 .11 \mathrm{~cm}^{3}$
$4.5124 .44 \mathrm{~cm}^{3}$
Q. 9 If $a+b=5$ and $a b=6$, then find $3\left(a^{2}+b^{2}\right)$.

Ans

1. 39
$\times 2.48$
$\times 3.26$
$\times 4.13$
Q. 10 In $\triangle A B C, A B=A C, O$ is a point on $B C$ such that $B O=C O$ and $O D$ is perpendicular to $A B$ and $O E$ is perpendicular to $A C$. If $\angle B O D=60^{\circ}$, then measure of $\angle A O E$ is:

Ans
⒈ $120^{\circ}$
2. $60^{\circ}$
3. $30^{\circ}$
< $4.90^{\circ}$
Q. 11 The reduction of $\mathbf{2 0 \%}$ in the price of rice enables a person to obtain 50 kg more for Rs.450. Find the original price of rice per kg.
Ans
X 1.Rs. 1
2. Rs. 2
3. Rs. 1.25
4. Rs. 2.25
Q. 12 The surface area of a cube is $864 \mathrm{~cm}^{2}$. The volume of the cube is $\qquad$ -.
Ans

1. $1728 \mathrm{~cm}^{3}$
2. $2197 \mathrm{~cm}^{3}$
3. $1331 \mathrm{~cm}^{3}$
$4.729 \mathrm{~cm}^{3}$
Q. 13 In a class of students, the first student has 2 toffees, second has 4 toffees, third has 6 toffees and so on. If the number of students in the class is 25 , then the total number of toffees are divisible by $\qquad$ —.
Ans
X 1.5 and 7
4. 5 and 13
$\times 3.11$ and 13
$\times 4.7$ and 11
Q. 14 A laptop is sold for ₹ 65,520 after a discount of $25 \%$. What was the marked price of the laptop?
Ans
$\times 1$. ₹ 87,630
5. ₹ 87,360

X 3. ₹87,370
X4. ₹ 83,760
Q. 15 What will be the least number which when doubled will be exactly divisible by 15,18 , 25 and 32 ?

Ans

1. 3600
2. 7200
3. 6400
4. 3200
Q. 16 The distance covered by a train in $(5 y-1)$ hours is $\left(125 \mathrm{y}^{3}-1\right) \mathrm{km}$. The speed of the train is:

Ans
X 1. $\left(5 y^{3}-1\right) \mathrm{km} / \mathrm{h}$
X2. $\left(25 y^{2}-5 y+1\right) \mathrm{km} / \mathrm{h}$
X 3. $(5 y+1) \mathrm{km} / \mathrm{h}$
4. $\left(25 \mathrm{y}^{2}+5 y+1\right) \mathrm{km} / \mathrm{h}$
Q. 17 The sides of a triangle are in the ratio $4: 6: 8$. The triangle is a/an:

Ans $\times 1$. isosceles triangle
2. obtuse-angled
3. acute-angled
4. right-angled
Q. 18 The table given below shows the marks obtained by six students in two subjects.

|  | Subject |  |
| :---: | :---: | :---: |
| Students | P | Q |
| A | 150 | 200 |
| B | 160 | 180 |
| C | 200 | 300 |
| D | 120 | 400 |
| E | 300 | 570 |
| F | 100 | 220 |

If the maximum marks for subject $P$ is 900 then what percentage of marks are obtained by $A$ in subject $P$ ?
Ans
X 1.125 .5 percent
2. 16.67 percent
3. 9.09 percent
4. 11.11 percent
Q. 19 In $\triangle A B C$, right-angled at $B, A B=7 \mathrm{~cm}$ and $A C-B C=1 \mathrm{~cm}$. Find the value of $\sin C$.

Ans

1. $\frac{3}{7}$
$\times 2 \frac{12}{13}$
2. $\frac{3}{25}$
3. $\frac{7}{25}$
Q. 20 In a 400 -metre race, $A$ runs at a speed of $16 \mathrm{~m} / \mathrm{sec}$. If $A$ gives $B$ a start of 15 metres and still beats him by 10 sec , then what is the speed of $B$ ?

Ans

1. $11 \mathrm{~m} / \mathrm{sec}$
2. $10 \mathrm{~m} / \mathrm{sec}$
3. $13 \mathrm{~m} / \mathrm{sec}$
$4.9 \mathrm{~m} / \mathrm{sec}$
Q. 21 If $\sin \theta+\cos \theta=\sqrt{ } 5 \sin (90-\theta)$, find the value of $\cot \theta$.

Ans

1. $\frac{\sqrt{5}-1}{5}$
2. $\frac{\sqrt{5}+1}{4}$
3. $\frac{\sqrt{5}+1}{3}$
4. $\frac{\sqrt{5}-1}{4}$
Q. 22 Study the given graph and answer the question that follows.


The total production of Company A in 2016 and 2019 together is what percentage of the total production of Company C in 2017 and 2018 together?

Ans
X1. $20 \%$
2. $83.33 \%$

X 3. $120 \%$
X4.5\%
Q. 23 The table given below shows the number of workers working in 5 different factories.

| Factories | Workers |
| :---: | :---: |
| J | 25 |
| K | 30 |
| L | 70 |
| M | 80 |
| N | 15 |

What is the total number of workers working in all factories?
Ans
$\times 1.180$
$\times 2.240$
$\times 3.250$

- 4.220
Q. $24 \mathrm{~A}, \mathrm{~B}, \mathrm{C}$ and D share a property worth Rs.93,100. If $A: B=1: 2, B: C=3: 4$ and $C: D=$ $5: 6$, then find the share of $C$.
Ans
X 1. Rs.34,000

2. Rs.28,000
3. Rs.25,000
4. Rs.31,000
Q. 25 If $\operatorname{cosec} A-\cot A=\frac{1}{4}$, then the value of $\tan A$ is:

Ans

1. $\frac{8}{15}$
×2. $\frac{8}{17}$
2. $\frac{15}{17}$
3. $\frac{17}{15}$
Q. 1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.
Solomon always refers in the dictionary for clearing doubts about words.
Ans
X 1. on the dictionary
X 2. No substitution
4. to the dictionary

X 4. with the dictionary
Q. 2 In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'.

Siraz-ud-Daula beseiged Calcutta to take punitive actions against the East India Company.
Ans
X 1. besiezed
2. besiejed
3. besieged

X4. No error
Q. 3 In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'.

The adoloscent period of life, one of the most difficult stages of development, is known as the period of stress and storm.
Ans
X 1. adelescent
2. adolescent
3. adeloscent
4. No error
Q. 4 Select the option that expresses the given sentence in passive voice.

Mandeep has repaired the truck.
Ans
X 1. The truck have been repaired by Mandeep.
2. The truck had been repaired by Mandeep.
3. The truck is been repaired by Mandeep.
4. The truck has been repaired by Mandeep.
Q. 5 Select the option that can be used as a one-word substitute for the underlined group of words.

The man supervising the exam had a huge moustache.
Ans
X 1. Examiner
X 2. Curator
X 3. Controller
4. Invigilator
Q. 6 Rearrange the parts of the sentence in correct order.

A single uranium
P. pencil eraser, contains the same energy
Q. pellet, slightly larger than a
R. as a ton of coal, 3 barrels of oil
S. or 17,000 cubic feet of natural gas

Ans

1. PRSQ
2. RSPQ
3. QPRS

X4.RPQS
Q. 7 Select the correct direct form of the given sentence.

Mr. Sharma asked him if Maya had invited him for lunch.
Ans

1. Mr. Sharma said to him, "Has Maya invited you for lunch?"
2. Mr. Sharma said to me, "Has Maya invited you for lunch?"
3. Mr. Sharma said to him, "Had Maya invited us for lunch?"
4. Mr. Sharma said to him, "Did Maya invited us for lunch?"
Q. 8 Select the most appropriate synonym of the underlined word in the following sentence.

Listening to the news of his father's illness, Soumen left for home with a heavy heart.
Ans

1. disturbance
2. sickness
3. disintegration
4. disorder
Q. 9 Select the option that expresses the given sentence in active voice.

The jewel thief was punished by the judge.
Ans
X 1. Punishment had been given to jewel thief.
$\times 2$. The police had punished the jewel thief.
3. The judge punished the jewel thief.
4. Punishment was given to jewel thief.
Q. 10 Select the most appropriate option to fill in the blank.

The little boy demanded colourful balloons, ribbons in the village fair. When the father didn't pay heed to his demands, the boy made a
Ans
$\times$

1. cloven hoof
2. wry face
3. a far cry
4. jaundiced eye
Q. 11 Select the most appropriate synonym of the underlined word.

The present paper throws light on the nexus between the academic performance and mental health of children.
Ans

1. Dispute
2. Alignment
3. Link
4. Incongruence
Q. 12 Select the most appropriate option to fill in the blank and complete the collocation.

Every time my boss comes up with some good idea, he gets into $\qquad$ -.
Ans

- 1. trouble
$\times 2$. fun
X 3. sleep
X 4. shock
Q. 13 Select the most appropriate option that can substitute the underlined segment in the given sentence.

One of my friends is gone to Goa for a holiday.
Ans

1. has gone
2. are gone
3. gone
4. were gone
Q. 14 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Neither the doctors nor / the nurse were present / when the patient / reached the hospital.

Ans

1. Neither the doctors nor
2. the nurse were present

X 3. when the patient
X 4. reached the hospital.
Q. 15 Select the most appropriate option to fill in the blank.

Although I have a good job, I wish to take the $\qquad$ of starting my own business.
Ans
X 1. back
X 2. seat
X 3. look
4. risk
Q. 16 Select the most appropriate synonym of the bracketed word to fill in the blank.

If we want to progress, we must sometimes embrace $\qquad$ (mutate).
Ans $\times$ 1. replicate
2. imitate
3. change
4. incise
Q. 17 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Finally, here are a few examples of passages and their précis.
Ans
X 1. by passages and their précis
2. of passages and there precis
3. of passages and there precises
4. No substitution
Q. 18 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P. As a boy Elon was a keen reader and learnt how to code computers.
Q. He even made his own video game called Blastar.
R. Later he moved to Canada and then the United States setting up his first company with his brother Kimbal in 1995.
S. But after some time, he sold that company to create a company called X.com.

Ans $\times 1 . \mathrm{RPSQ}$
X 2. PRSQ
X 3. SQRP
4. PQRS
Q. 19 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Mr. Raghav racked his brain, but couldn't think where he had left the book.
Ans 1. thought very hard
2. had a series of consecutive thoughts
3. knew it, but couldn't quite remember it
4. thought he had heard something before
Q. 20 Select the most appropriate ANTONYM of the underlined word.

The recent disaster of unprecedented floods in June 2013 in the state of Uttarakhand devastated many towns and villages on the banks of the rivers Bhagirathi, Pindar, Mandakini, Alaknanda and Sarju.
Ans
X 1. Lacklustre
2. Tarnished
-
3. Familiar
4. Deranged

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tattooing is a talent that requires a lot of time and (1) $\qquad$ . There are many various kinds and (2) $\qquad$ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3) $\qquad$ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4) $\qquad$ and the skill to sketch
and create your artwork. Tattooing penmanship is far more (5) $\qquad$ than sketching on paper.

SubQuestion No : 21
Q. 21 Select the most appropriate answer to fill in blank 1.

Ans
$\times 1$ integrity
X 2. capacity
X 3. liability
2. ability

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tattooing is a talent that requires a lot of time and (1) $\qquad$ There are many various kinds and (2) $\qquad$ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3) $\qquad$ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4) $\qquad$ and the skill to sketch and create your artwork. Tattooing penmanship is far more (5) $\qquad$ than sketching on paper.

SubQuestion No: 22
Q. 22 Select the most appropriate answer to fill in blank 2.

Ans
X 1. views
2. genres

X 3. keys
X 4. gestures

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tattooing is a talent that requires a lot of time and (1) $\qquad$ There are many various kinds and (2) $\qquad$ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3) $\qquad$ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4) $\qquad$ and the skill to sketch and create your artwork. Tattooing penmanship is far more (5) $\qquad$ than sketching on paper.

SubQuestion No : 23
Q. 23 Select the most appropriate answer to fill in blank 3.

Ans
X 1. detaching
2. embedding

X 3. combining
X 4. fertilising

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tattooing is a talent that requires a lot of time and (1) $\qquad$ There are many various kinds and (2) $\qquad$ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3) $\qquad$ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4) $\qquad$ and the skill to sketch
and create your artwork. Tattooing penmanship is far more (5) $\qquad$ than sketching on paper.

SubQuestion No: 24
Q. 24 Select the most appropriate answer to fill in blank 4.

Ans
X 1. glimpse
X 2. drama

- 3. attitude
$\times 4$. career


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tattooing is a talent that requires a lot of time and (1) $\qquad$ . There are many various kinds and (2) $\qquad$ someo or life by permanently (3) $\qquad$ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4) $\qquad$ and the skill to sketch and create your artwork. Tattooing penmanship is far more (5) $\qquad$ than sketching on paper.

SubQuestion No : 25
Q. 25 Select the most appropriate answer to fill in blank 5.

Ans
X 1. aggravated
X 2. confiscated
3. complicated
$X 4$. authenticated

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.Haryanajobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Azad Puram |
| Exam Date | 03/12/2022 |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Which of the following interchange of mathematical signs would make the given equation correct?
$20 \div 4 \times 8+16-15=11$
Ans
$\times 1$,-, +
X2. ${ }^{+,-}$
3. $\times, \div$
$\times 4 .+, \times$
Q. $2 A+B$ का अर्थ है कि ' $A, B$ के पिता है'
$A$ * $B$ का अर्थ है कि ' $A, B$ की बहन है’
$A \% B$ का अर्थ है कि ' $A, B$ की पुत्री है'
$A \$ B$ का अर्थ है कि ' $A$, $B$ का पुत्र है'
यदि $L \% M+N^{*} O \$ P$ है, तो $L$ का $P$ से क्या संबंध है?
Ans
X1. बहन
2. पुत्री
$\times 3$. माता
4. सास
Q. 3 Which of the following numbers will replace the question mark (?) in the given series?
$\frac{1}{2}, \frac{3}{4}, ?, \frac{5}{4}$
Ans

1. 1
2. $\frac{1}{4}$
3. $\frac{3}{4}$
×4. $\frac{2}{3}$
Q. 4 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
25:264:: 31 : ? :: 49:456
Ans

- 1.312
$\times 2.314$
$\times 3.297$
$\times 4.961$
Q. 5 In a certain code language, 'ESCAPE' is written as ' 49 ' and 'PRISON' is written as ' 91 '. How will 'FREEDOM' be written in that language?

Ans 1.66
2. 59
3. 64
4. 55
Q. 6 What should come in place of the question mark (?) to complete the following letter series?
F, E, I, G, L, I, O, ?
Ans
X1.1
$\times 2 . \mathrm{J}$
X3.L
4.K
Q. 7 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1- Pardoner
2- Parenthetical
3- Parental
4- Pardon
5- Parenthesis
Ans
( $1.1,4,3,2,5$
2. $4,1,3,2,5$
3. $4,1,3,5,2$
4. $1,4,3,5,2$
Q. 8 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
11: 94 :: 23 : ? :: 18 : 150
Ans

1. 190
$\times 2.199$
$\times 3.129$
2. 109
Q. 9 Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.

Ans
X 1.IGMJ
2. SPVT
3. DBHE
4. NLRO
Q. 10 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
25 * 4 * 6 * 2 * 17
Ans
X1.,,$-+ \times,=$
2. +, -, =, +
3.,,$+- \div,=$
4.,$+-\times,=$
Q. 11 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
(0.20, 5, 25)
(0.083, 12, 144)

Ans
X 1. $(0.240,4,16)$
2. $(0.143,6,36)$
3. $(0.056,18,289)$
4. $(0.063,16,256)$
Q. 12 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
Some pens are books.
All books are compasses.
Some compasses are pins.
Conclusions:
I. Some compasses are pens.
II. All compasses are pens.
III. Some pins are books.
IV. Some compasses are books.

Ans
X 1. Only conclusions I and II follow
X 2. Only conclusions II and III follow
3. Only conclusions I and IV follow

X 4. Only conclusions III and IV follow
Q. 13 Select the figure that will come next in the following figure series.


Ans
$\times 1$

$\times 2$.

$\times 3$

4.

Q. 14 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

$\times 3$.

Q. 15 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation.
Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans
X1.6-60

- 2. 2-18
$\times 3.4-40$
X4.8-80
Q. 16 Select the figure that will come next in the following figure series.


Ans


Q． 17 Select the option in which the given figure is embedded（rotation is NOT allowed）．


Ans
P1
$\times 2$.

$\times 3$.

， 4.


Q． 18 Select the correct mirror image of the given combination when the mirror is placed at＇ PQ ＇as shown below．

## THANKFUL

Ans
$\times$ IU킨ИAHT
²JUҰクИАНТ
x．」U7＞1АИНT
×．」UIЭУАИНТ

Q． 19 If $P \div \mathbf{Q}$ means that $P$ is the mother of $Q, P \times Q$ means that $P$ is the father of $Q, P-Q$ means that $P$ is the sister of $Q$ ，then which of the following expression shows that $A$ is the father of $\mathbf{C}$ ？

Ans
X1．B $\times \mathrm{A}-\mathrm{C}$
2．$A \times B-C$
X $3 . A \times B \div C$
$\times 4 . A-B \times C$
Q. 20 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some $S$ are C.
II. Some C are D.

Conclusions:
I. All D are S.
II. Some C are S.
III. Some D are C.

Ans $\times 1$. Both conclusions I and II follows
2. Both conclusions II and III follows

X 3. Both conclusions I and III follows
X4. All conclusion follows
Q. 21 In a certain code language, 'DOVE' is coded as '1122214' and 'CROW' is coded as '823311'. How will 'MYNA' be coded in that language?
Ans
$\times 1.1121512$
2. 1132512
3. 1132412
4. 1132522
Q. 22 By interchanging the given two signs and numbers which of the following equation will be correct?

- and,+ 6 and 3

Ans
X1. $7-3 \times 2 \div 6+4=17$
2. $8 \times 3-6+4 \div 2=49$

X $3.7+6 \div 3 \times 8-5=35$
4. $9-6 \times 4+3 \times 7=8$
Q. 23 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Hibiscus: Flower
Ans

1. Pumpkin : Fruit
2. Beans: Protein
3. Leaf: Green
4. Tree : Trunk
Q. 24 Which of the following terms will replace the question mark (?) in the given series?

ZXE ZWD ZVC ? ZTA
Ans
$\times 1$ IAB
X 2. SUB

- 3. ZUB

X 4. zuc
Q. 25 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
COOK : DQPM :: DOWN : EQXP :: ONLY : ?
Ans

1. PPMA
2. PPMB
3. PQMA
4. PQMB

Section: General Awareness
Q. 1 निम्नलिखित में से कौन ग्रैमी पुरस्कार जीतने वाले पहले भारतीय थे?

Ans

1. पंडित रवि शंकर
2. पंडित शिव कुमार शर्मा
3. पंडित विश्व मोहन भट्ट
4. उस्ताद जाकिर हुसैन
Q. 2 Chemical formula of gypsum is $\qquad$ .

Ans

1. $\mathrm{CaSO}_{4} \cdot 2 \mathrm{H}_{2} \mathrm{O}$
2. $\mathrm{CaSO}_{4} \cdot \mathrm{H}_{2} \mathrm{O}$
3. $\mathrm{CaSO}_{4}$
4. $\mathrm{CaSO}_{4} \cdot(1 / 2) \mathrm{H}_{2} \mathrm{O}$
Q. 3 Wangala festival is celebrated by which of the following tribes?

Ans $\times 1$. Bhil tribe
2. Garo tribe
3. Tharu tribe
4. Bhutia tribe
Q. 4 Which Article deals with the 'Power of Parliament to amend the Constitution and procedure therefor'?

Ans

1. Article 352
2. Article 249
3. Article 368
4. Article 356
Q. 5 Name the first Odissi classical dancer from Odisha who was conferred the Padma Vibhushan Award.

Ans

1. Kelucharan Mohapatra
2. Bijayini Satpathy
3. Sonal Mansingh
4. Gangadhar Pradhan
Q. 6 The official draw for FIFA U-17 Women's World Cup India 2022 will be held in:

Ans $\times$ 1. China $P R$
2. Brazil
3. India
4. Zurich
Q. 7 $\qquad$ is a record of assets and liabilities of any firm.
Ans

1. Bill file
2. Balance of payment
3. Balance sheet
4. Bank bailout
Q. 8 निम्नलिखित में से कौन सा कथन सही है?
I. परिवार कल्याण कार्यक्रम ने अनिवार्य आधार पर जिम्मेदार और योजनाबद्ध पितृत्व को बढ़ावा देने की मांग की है।
II. राष्ट्रीय जनसंख्या नीति 2000, 14 वर्ष की आयु तक मुफ्त और अनिवार्य शिक्षा प्रदान करने के लिए एक नीतिगत ढांचा प्रदान करती है।
Ans
5. ना ही। ना ही ॥
6. केवल।
7. केवल ॥
8. I तथा II दोनों
Q. 9 इवेंजेलिस्टा टोरिसेली किस खोज के लिए प्रसिद्ध हैं?

Ans
$\times 1$. स्प्रिंग तुला के आविष्कार
2. पीज़ोमीटर के आविष्कार
3. मरकरी बैरोमीटर के आविष्कार
$\times$ 4. वैक्यूम गेज के आविष्कार
Q. 10 Who was considered as last powerful Mughal ruler of India?

Ans
X 1. Akbar
2. Aurangzeb
3. Akbar II
4. Shahjahan
Q. 11 Which state government has launched the CHHATA scheme to improve groundwater table in September 2022?

Ans
X 1. Uttar Pradesh
2. Madhya Pradesh
3. Karnataka
4. Odisha
Q. 12 The minimum period of time taken upto which the weather variations are considered to predict the climate of a place is $\qquad$ years.
Ans
$\times 1.20$
$\times 2.25$
$\times 3.10$

- 4.30
Q. 13 The length of a Beach Volleyball court is:

Ans
X 1.12 m
2. 16 m
3. 20 m
4. 15 m
Q. 14 निम्नलिखित में से हड़प्पा सभ्यता के किस पुरास्थल में जेडाइट पत्थर पाया गया था?

Ans
$\times 1$. महागढ़ा
X 2. मेहरगढ़
3. हल्लूर
4. दाओजली हेडिंग
Q. 15 India.
Ans

1. Ravi Kumar S
2. Roger Binny

X 3. Pradeep Singh Kharola
4. Bhushan Akshikar
Q. 16 For pregnant women, a Special Health Care Abhiyan 'Anchal' has been launched in

Ans
X1. Gujarat
2. Rajasthan

X 3. Haryana
4. Punjab
Q. 17 Which of the following are members of 15 naturally occurring metallic chemical elements whose atomic numbers are between 57 and 71?

Ans
X 1. Alkali Metals
2. Lanthanides
3. Halogens
4. Actinides
Q. 18 In the beginning of the $19^{\text {th }}$ century cotton mills in India were mostly located in which of the following states?

Ans

1. Assam
2. Punjab
3. Maharashtra
4. Haryana
Q. 19 Dadabhai Naoroji offered a scathing criticism of the economic impact of British rule through his book entitled ' $\qquad$ '.

Ans

1. India Today
2. The Idea of India
3. Poverty and Un-British Rule in India
4. The History of British India
Q. 20 In March 2022, Pramod Sawant became the $\qquad$ Chief Minister of Goa.

Ans
$\times 1.10^{\text {th }}$
2. $13^{\text {th }}$
3. $15^{\text {th }}$
4. $11^{\text {th }}$
Q. 21 Identify an option that does NOT represent prokaryotic cells.

Ans
X 1. Mycoplasma
2. Blue-green alga
3. Sperm
4. Pleuropneumonia-like organism
Q. 22 Which of the following is NOT an aid or auxiliary to trade?

Ans

1. Hoarding
2. Insurance
3. Warehousing
4. Transportation
Q. 23 Who is known as the Father of Geology?

Ans
X 1. John Butler
2. Alfred Wegener
3. James Hutton
4. Art Smith
Q. 24 Mirza Kamran was the brother of which Mughal emperor?

Ans

1. Humayun

X 2. Akbar
X 3. Jahangir
4. Shah Jahan
Q. 25 Which of the following folk dances is primarily performed in the Indian state of Bihar?

Ans
X 1. Ghoomar
X 2. Kalbeliya
3. Bidesia
4. Kummatti

Section : Quantitative Aptitude
Q. 1 The radius of a right circular cylinder is thrice of its height. If the height of the cylinder is 2.1 cm , then what is the volume of cylinder?

Ans
$\times 1.224 .65 \mathrm{~cm}^{3}$
X 2. $194.72 \mathrm{~cm}^{3}$
$\times 3.324 .86 \mathrm{~cm}^{3}$

- $4.261 .95 \mathrm{~cm}^{3}$
Q. 25 men and 8 women can complete a work in 12 days working together, while 3 men and 7 women together can complete the same work in 15 days. In how many days will 11 women complete the same work?
Ans

1. 12
-2. 8
2. 6
3. 16
Q. 3 Study the given table and answer the question that follows.

The daily wages of 50 employees of a company is shown in the table.

| Daily wages Interval | Frequency (No. of Employee) |
| :---: | :---: |
| $80-90$ | 9 |
| $90-100$ | 3 |
| $100-110$ | 31 |
| $110-120$ | 5 |
| $120-130$ | 2 |

Select the correct statement from the following options.
Ans

1. The average wage of the employees lie between 80-90.
2. The average wage of the employees lie between 110-120.
3. The average wage of the employees lie between 100-110.
4. The average wage of the employees lie between 90-100.
Q. 4 If $\frac{\mathrm{k}-\mathrm{kcot}^{2} 30^{\circ}}{1+\cot ^{2} 30^{\circ}}=\sin ^{2} 60^{\circ}+4 \tan ^{2} 45^{\circ}-\operatorname{cosec}^{2} 60^{\circ}$, then the value of k (correct to two decimal places) is:

Ans $\times 1.5 .55$
2. -6.83
3. -5.58
4. 6.83
Q. 5 A man bought a watch for $12 \%$ discount. If he had bought it for $24 \%$ discount, he would have got the watch for ₹ 2400 less. The marked price of the watch is:
Ans

1. ₹ 30,000
2. ₹ 22,500
3. ₹ 20,000
4. ₹ 25,000
Q. 6 If the price of salt decreases by $\mathbf{2 0 \%}$, then by what percentage should consumption be increased to keep the expenditure same?
Ans
X1. $26 \%$
5. $27 \%$

- 3. $25 \%$

4. $24 \%$
Q. 7 A solid copper sphere of radius 9 cm is hammered and moulded into a wire of radius 2 cm . What is the length of this wire?

Ans

1. 224 cm
2. 183 cm
3. 198 cm
4. 243 cm
Q. 8 Which smallest positive number should be subtracted from each of 9 and 13 so that 18 is the third proportion to them?
Ans
$\times 1.2$
5. 4
6. 3
7. 1
Q. 9 A company employed 700 men and 300 women and the average wage was Rs. 450 per day. If a man got Rs. 50 more than a woman, then the daily wage of the woman is:
Ans
8. Rs. 350
9. Rs. 375
10. Rs. 415
11. Rs. 435
Q. $10 A, B, C$ are three angles of a triangle. If $A-B=45^{\circ}$ and $B-C=15^{\circ}$ then $\angle A=$ ?

Ans
$\times 1.83^{\circ}$
$\times 2.85^{\circ}$
3. $95^{\circ}$
$\times 4.75^{\circ}$
Q. 11 If $8 a^{3}+27 b^{3}=16$ and $2 a+3 b=4$,then find the value of $16 a^{4}+81 b^{4}$.

Ans $\times 1.26$
$\times 2.30$
X 3.28

- 4.32
Q. 12 The import and export of a country (in lakhs rupees) during a certain period of time is given in the following bar-graph.

Read the bar-graph carefully and answer the following question.


What is the average of exports during the given period of time?
Ans

1. Rs.1,250.2 lakhs
2. Rs.1,240.0 lakhs
3. Rs.1,248.2 lakhs
4. Rs.1,115.4 lakhs
Q. 13 If the cost price is $72 \%$ of the selling price, then what is the percentage of profit? (Correct to 2 decimal places)

Ans 1.38.89\%
2. $35.75 \%$
3. $32.25 \%$
4. $28.75 \%$
Q. 14 What would be the compound interest on Rs.15,750 at 20\% per annum, in two years, if the interest is compounded half yearly?
Ans

1. Rs. $5,213.25$
2. Rs.3,307.5
3. Rs. $7,305.975$
4. Rs.7,309.575
Q. 15 एक पुलिसकर्मी को 500 m की दूरी पर चेन स्रैचर दिखाई देता है। वह $5 \mathrm{~m} / \mathrm{s}$ की चाल से दौड़ रहे चेन स्नैचर का पीछा करना शुरू कर देता है, जबकि पुलिसकर्मी $15 \mathrm{~m} / \mathrm{s}$ की चाल से उसका पीछा कर रहा होता है। जब चेन स्नैचर को पुलिसकर्मी द्वारा पकड़ा जाता है, तब तक चेन स्रैचर कितनी दूरी तय कर चुका होगा?
Ans
X 1.200 m
X2. 180 m
$\times 3.150 \mathrm{~m}$
5. 250 m
Q.16 A number when divided by 7 leaves remainder of 4 . If the square of the same number is divided by 7 , then what is the remainder?
Ans
$\times 1.3$
6. 1
3.4
7. 2
Q. 17 The given table shows the number of new employees joined in different categories of employees in an organisation and also the number of employees from these categories who left the organisation every year since the foundation of the organisation in 2015. Study the table and answer the question that follows.

| Year | Business <br> Analysts |  | Accountants |  | Sales <br> Representatives |  | Peons |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Joined | Left | Joined | Left | Joined | Left | Joined | Left |
|  | 80 | 0 | 35 | 0 | 50 | 0 | 73 | 0 |
| 2016 | 63 | 21 | 26 | 16 | 46 | 20 | 34 | 23 |
| 2017 | 78 | 28 | 15 | 5 | 38 | 15 | 48 | 29 |
| 2018 | 42 | 39 | 20 | 38 | 34 | 0 | 14 | 12 |
| 2019 | 67 | 44 | 14 | 24 | 22 | 30 | 21 | 30 |

During the years given, what is the difference between the total number of Business Analysts who joined the organisation and the total number of Sales Representatives who joined the organisation?

Ans
$\times 1.141$

- 2.140
$\times 3.142$
X4. 143
Q. 18 If $\cot B=9$, then what will be the value of $\sec ^{2} B$ ?

Ans
X 1.98/81
X $2.92 / 81$
X $3.42 / 81$
4. $82 / 81$
Q. 19 मान लीजिए $O$ एक वृत्त का केंद्र है और $P$ वृत्त के बाहर एक बिंदु है। यदि PAB, वृत्त का एक छेदक है जो वृत्त को $A$ और $B$ पर काटता है और PT, $P$ से खींची गई स्पशरिखा है, तो PT की लंबाई ज्ञात कीजिए।
$P A=3 \mathrm{~cm}$ और $A B=9 \mathrm{~cm}$ है।
Ans
$\times 1.3 \sqrt{3} \mathrm{~cm}$
$\times$ 2. $4 \sqrt{3} \mathrm{~cm}$
3. 6 cm
$\times 4.8 \mathrm{~cm}$
Q. 20 The value of $95 \times 105$ is:

Ans
$\times 1.9981$
$\times 2.9935$
X 3.9965
2. 9975
Q. 21 The LCM of two numbers is 120 and the numbers are in the ratio $3: 8$. The sum of the numbers will be:
Ans
$\times 1.48$

- 2.55
$\times 3.45$
$\times 4.60$
Q. 22 Simplify the following:
$\frac{\cos x-\sqrt{3} \sin x}{2}$
Ans
X1. $\cos \left(\frac{\pi}{3}-x\right)$
x 2. $\sin \left(\frac{\pi}{3}+x\right)$

2. $\cos \left(\frac{\pi}{3}+x\right)$

X4. $\sin \left(\frac{\pi}{3}-x\right)$
Q. 23 Find the value of the following expression.
$12^{3}+(-8)^{3}+(-4)^{3}$
Ans $\times 1.952$
2. 1152

X 3.1052
$\times 4.852$
Q. 24 Suppose $\triangle A B C$ be a right-angled triangle where $\angle A=90^{\circ}$ and $A D \perp B C$. If area $(\triangle A B C)$
$=80 \mathrm{~cm}^{2}$ and $B C=16 \mathrm{~cm}$, then the length of $A D$ is:
Ans

- 1.10 cm

X2. 24 cm
X 3.18 cm
$\times 4.12 \mathrm{~cm}$
Q. 25 The following pie chart represents the percentage-wise weight distribution of different fruits out of 2500 kg of fruits at one fruit shop.


What is the difference between the weights of banana and orange at the fruit shop?

Ans
X 1.125 kg

- 2. 100 kg

X 3.50 kg
$\times 4.75 \mathrm{~kg}$
Q. 1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.Shalini was scrolling down the phone screen while waiting for her friend.
B.Her friend brought a bouquet for Shalini from the market place.
C. When her friend arrived, they went to the market place.
D.The market place was thronging with people.

Ans $\times 1$. BACD
2. DACB
3. ABCD
4. ACDB
Q. 2 Select the most appropriate meaning of the given idiom.

Cut a poor figure
Ans

1. In a poor state
2. To put a good impression
3. To put a bad impression
4. Bad physical form
Q. 3 Rearrange the parts of the sentence in correct order.

A 2007-2009 study
P. explored forward thinking techniques
Q. to synchronise time on board deep
R. space probes for accurate navigation, in
S. particular looking into low-cost options

Ans

1. RSPQ
2. PSRQ

X 3.SPRQ
4. PQRS
Q. 4 Select the correct passive form of the given sentence. The indentured labourers fix the roads.

Ans
$X 1$. The roads was fixed by indentured labourers.
2. The roads were fixed by indentured labourers.
3. The roads are fixed by indentured labourers.
4. The roads were being fixed by indentured labourers.
Q. 5 Select the option that expresses the given sentence in active voice.

The evil king was defeated by Gandolf, the savior.
Ans

1. Gandolf, the savior, defeated the evil king.
2. The savior of Gandolf defeated the evil king.
3. Gandolf, the savior, had defeated the evil king.
4. Gandolf, the savior, defeats the evil king.
Q. 6 Select the most appropriate meaning of the given idiom. Bear the palm
Ans
X 1. To bring joyful news
5. To lose a game
6. To advocate peace
7. To be a winner
Q. 7 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
Every person should know their own $\qquad$ , what their skill set is and how unique they are.
Ans
$\times 1$. calamities
X 2. punctualities
8. specialties
9. fecundities
Q. 8 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
The manager told her that / she should be a bit more / careful while executed the / orders of the company.
Ans
$X$ 1. The manager told her that
10. she should be a bit more
11. orders of the company
12. careful while executed the
Q. 9 Select the option that can be used as a one-word substitute for the given group of words.

## A loud appeal or demand

Ans
X 1. Protest
X 2. Entourage
2. Clamour

X 4. Gambit
Q. 10 Select the sentences that contains no spelling errors.

Ans $\times 1$. He screeched hystericalli after seeing the accident.
2. He screeched hystericaly after seeing the accident.
3. He screeched hysteerically after seeing the accident.
4. He screeched hysterically after seeing the accident.
Q. 11 Select the option that expresses the given sentence in indirect speech. He said, 'Let us wait for the award.'

Ans 1. He proposed that they should wait for the award.
2. He said that he should wait for the award.
3. He proposed that he should wait for the award.
4. He said that they should waited for the award.
Q. 12 Select the most appropriate ANTONYM of the given word.

## Humble

Ans

1. Dishonour
2. Pleasantry
3. Modest
4. Arrogant
Q. 13 Select the most appropriate option to substitute the underlined segment in the given sentence.

During my Goa tour, I had visited beaches in Vasco, Baga and Vagator.
Ans

1. visited

X 2. have visited
X 3. was visited
4. had visited
Q. 14 Select the most appropriate option to fill in the blank.

The country's rapid $\qquad$ has led to a rise in many people's standard of living.
Ans
X 1. idea
X 2. life
3. confidence
4. growth
Q. 15 Select the most appropriate ANTONYM of the word laborious from the given sentence:

Although gardening is a laborious job, but it gives me boundless joy, strenuous happiness and immense satisfaction and I like this facile activity.
Ans
X 1. boundless
2. facile
$X$ 3. strenuous
X 4.immense
Q. 16 Select the INCORRECTLY spelt word.

Ans

1. Friwsk
2. Reply
3. Rusk
4. Foliage
Q. 17 Select the most appropriate adverb to fill in the blank.

They supplied the required human resource $\qquad$ -.

Ans

1. faultlessly
2. heavy
3. clear
4. able
Q. 18 Select the most appropriate synonym of the underlined word.

The celebrity was inundated with birthday wishes from his admirers.
Ans
X 1. Annoyed
X 2. Preoccupied
X 3. Rewarded
4. Overwhelmed
Q. 19 Select the most appropriate ANTONYM of the given word.

Dispatch
Ans

- 1. Acquire

X 2. Transmit
X 3. Deliver
X 4. Bulletin
Q. 20 Select the correct direct form of the given sentence. Leena said that his relatives were landing the next day.
Ans

1. Leena said, "My relatives land tomorrow."
2. Leena said, "His relatives are landing today."

X 3. Leena said, "His relatives were landing tomorrow."
4. Leena said, "His relatives are landing tomorrow."

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Education (1) $\qquad$ both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2) $\qquad$ on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3) $\qquad$ teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4) $\qquad$ human right. Educational systems are established to provide education and (5) $\qquad$ , often for children and the young.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1 . likes
X 2. releases
X 3.makes
4. encompasses

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Education (1) $\qquad$ both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2) $\qquad$ on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3) $\qquad$ teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4) $\qquad$ human right. Educational systems are established to provide education and (5) $\qquad$ , often for children and the young.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
$X 1$. changes
X 2. makes
3. focuses

X 4. regards

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Education (1) $\qquad$ both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2) $\qquad$ on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3) $\qquad$ teachers. This consists of the application of
pedagogy and the development of curricula. The right to education is a (4) $\qquad$ human right.
Educational systems are established to provide education and (5) $\qquad$ , often for children and the young.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
$\times 1$ general
2. professional

X 3. fresh
X 4. new

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Education (1) $\qquad$ both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2) $\qquad$ on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3) $\qquad$ teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4) $\qquad$ human right. Educational systems are established to provide education and (5) $\qquad$ , often for children and the young.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans

1. fundamental
2. personal
3. beautiful
4. long standing

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Education (1) $\qquad$ both technical competency. It thus (2) $\qquad$ on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3) $\qquad$ teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4) $\qquad$ human right. Educational systems are established to provide education and (5) $\qquad$ , often for children and the young.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. dreams
$X$ 2. challenges
2. training

X 4. upbringing

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | ON Digital Zone iDZ Ward No 1 |
| Exam Date | 03/12/2022 |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 In a certain code language, 'EDUCATION' is written as 'GFWCATKQP' and 'PROFESSOR' is written as 'RTQFESUQT'. How will 'FACULTIES' be written in that language?
Ans
X 1. HCEWLTIGU
2. HCEWNVKGU
3. HCEULTKGU

X 4. HCEULVKGU
Q. 2 By interchanging the given two signs and numbers which of the following equation will be correct?

+ and $\times, 1$ and 2
Ans
人1. $8 \times 3-4 \div 2+1=7$
X2. $2 \times 3-8 \div 1+9=18$
- $3.8 \times 3-4 \div 2+1=3$

X4. $2 \times 3-8 \div 1+2=5$
Q. 3 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 2 '.


Figure 2


Figure 3

Ans
$\times 1.5$
$\times 2.4$
$\times 3.3$

- 4.1
Q. 4 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(6,22,14)$
$(8,30,19)$
Ans
X $1 .(12,46,27)$

2. $(4,18,11)$

X $3 .(7,26,17)$
$\times 4 .(9,34,22)$
Q. 5 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(63,81,7)$
$(84,49,12)$
Ans

1. $(99,121,9)$

X 2. $(76,234,12)$
X 3. $(12,125,56)$
X 4. $(78,14,56)$
Q. 6 Select the set in which the numbers are NOT related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / substracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(22, 9, 198)
Ans
X 1. $(19,7,133)$
$\times 2 .(26,5,130)$
X $3 .(28,7,196)$

- 4. $(17,9,157)$
Q. $7 \quad A+B$ means ' $A$ is the father of $B$ ' $A$ - $B$ means ' $A$ is the mother of $B$ '
$A @ B$ means ' $A$ is the son of $B$ '
$A$ \# $B$ means ' $A$ is the daughter of $B$ '
If $A$ \# B-C @ $D+E$, then how is $A$ related to $E$ ?
Ans
X 1. Sister-in-law

2. Mother
3. Sister
4. Daughter
Q. 8 Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
All spoons are forks.
All knives are forks.
All forks are plates.
Conclusions:
I. All knives are plates.
II. All plates are spoons.
III. Some plates are knives.

Ans
X 1. All conclusions follow.
X 2. Both conclusions II and III follow.
X 3. Both conclusions I and II follow.
4. Both conclusions I and III follow.
Q. 9 Which of the following numbers will replace the question mark (?) in the given series?
?, 11, 35, 107, 323
Ans $\times 1.4$
$\times 2.5$
$\times 3.8$

- 4.3
Q. 10 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All P are Q.
II. All $R$ are $\mathbf{Q}$.

Conclusion:
I. All $Q$ are $R$.
II. All $P$ are R.

Ans

1. Neither conclusion follows

X 2. Only conclusion I follows
X 3. Only conclusion II follows
X 4. Both conclusions I and II follows
Q. 11 Select the figure that will replace the question mark (?) in the following figure series.


Ans

$\times 2$.

$\times 3$.

$\checkmark 4$.

Q. 12 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Lesage
2. Laudatory
3. Laureate
4. Latitude
5. Legacy
6. Laudanum
7. Launder

Ans
1.4, 6, 7, 3, 2, 1, 5

X 2. 4, 6, 7, 2, 3, 1, 5

* $3,4,6,2,7,3,5,1$

X4.4,6,2,3,7,1,5
Q. 13

Which of the following terms will replace the question mark (?) in the given series?
VTHJ ? TRJL SQKM RPLN
Ans
X 1. USIP
X 2. UZIK
3. USIK
$\times$ 4. USLK
Q. 14 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
⒈ (90-93-96)

2. (84-87-90)
3. (44-49-52)
$\times 4 .(58-61-64)$
Q. 15 If $L \times M$ means that $L$ is the mother of $M, L-M$ means that $L$ is the father of $M, L \div M$ means that $L$ is the sister of $M$, then which of the following expression shows that $P$ is the father of $R$ ?

Ans
X1. $Q-P \times R$
2. $P-Q \div R$

X 3. $\mathrm{P}-\mathrm{Q} \times \mathrm{R}$
X4.R-P $\times Q$
Q. 16 Which figure should replace the question mark (?) if the series were to be continued?


Ans

Q. 17 Select the option figure in which the given figure ( X ) is embedded as its part (rotation is NOT allowed).
( X$)$


Ans

$\times 2$

$\times 3$

$\times 4$.

Q. 18 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Bee : Beehive :: Dog : ?
Ans

1. Kennel
2. Stable
3. Pen
4. Shed
Q. 19 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related
to each other based on the number of letters/number of consonants/vowels in the
word)
Tailor : Sewing machine
Ans
5. Electrician : Expensive
6. Farmer: Plants
7. Scissors: Hair
8. Police : Handcuffs
Q. 20 In a certain code language, STEAMER is coded as 81 , and CRUISE is coded as 75 . How will SUBMARINE be coded in that language?

Ans

1. 102
$\times 2.109$
2. 100
$\times 4.115$
Q. 21 Which of the following letter-clusters will replace the question mark (?) in the given series?
RLV, PNS, NPP, ?, JTJ
Ans
3. MSN
4. LRM
5. KQN
6. KTM
Q. 22 Select the correct combination of mathematical signs to replace the * signs and balance the given equation.
66 * 6 * 12 * 3 * 15 = 12
Ans
X $1 . \div,-, \times,+$
2.,,$+- \div, \times$
7. $\div, \times,+,-$
8. $\times,-, \div,+$
Q. 23 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?
$54-(3 \times 12) \div(8)^{\frac{1}{3}}+(11 \times 4)+6=69$
Ans
9. 11 and 6
10. 4 and 12
11. 6 and 4
12. 3 and 4
Q. 24 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
$\times 1$.EQVK
13. RDIX
14. QFJV
15. IMRO
Q. 25

Select the option figure in which the given figure is embedded (rotation is NOT allowed).


Ans

$\checkmark 2$.

$\times 3$.

$\times 4$


## Section: General Awareness

Q. 1 The arms Act which disallowed Indians from having arms was passed in $\qquad$ -.
Ans

1. 1878
2. 1925
3. 1920
4. 1855
Q. 2 Roquefortine $\mathbf{C}$ is found in:

Ans $\times 1$. Meat
X 2. chicken
X 3. Egg
4. cheese
Q. 3 The Mohiniyattam dance form originated from which state?

Ans

1. Kerala
2. Karnataka
3. Tamil Nadu
4. Maharashtra
Q. 4 The body of the $\qquad$ is circular in cross-section, hence, the name roundworms.
They may be free living, aquatic and terrestrial or parasitic in plants and animals.
Ans
X 1. Platyhelminthes
5. Ctenophores
6. Mollusca
7. Aschelminthes
Q. 5 Which French chemist was one of the first scientists to synthesise organic compounds such as formic acid, methane and acetylene from their elements?
Ans
X 1. Jacob Berzelius
X 2. Auguste Laurent
8. Marcellin Berthelot

X 4. Antoine Lavoisier
Q. 6 For which year was Manna Dey honored with the Dadasaheb Phalke Award?

Ans
X 1.2015
X 2.2019

- 3.2007
$\times 4.2001$
Q. 7 Ugadi is celebrated in which of the following states?

Ans $\times 1$. Madhya Pradesh
2. Andhra Pradesh

X 3. Himachal Pradesh
X 4. Kerala
Q. 8 Who has been appointed as the Chief Executive Officer of NITI Aayog in June 2022?

Ans
X 1. Avinash Kulkarni
X 2. Krishna Srinivasan
3. Vivek Kumar
4. Parameswaran Iyer
Q. 9 Which special knowledge or practical experience is NOT a condition for being nominated to Rajya Sabha by the President of India?
Ans
$\times 1$. Science
X 2. Art
3. Eloquence

X 4. Literature
Q. 10 Achievement of self-reliance and removal of poverty were twin objectives of which five-year plan?
Ans
$\times 1$. Third
2. Fifth

X 3. Fourth
4. Second
Q. 11 Who said the following words?
"Sarfaroshi ki tamanna ab hamare dil me hai, dekhna hai zor kitna baazu-e-qaatil me hai"
Ans

1. Ramprasad Bismil

X 2. Bhagat Singh
X 3. Ras Bihari Bose
X 4. Subhash Chandra Bose
Q. 12 Which of the following pairs of countries will host the 2023 FIFA Women's World Cup?

Ans
X 1. Canada and Mexico
X 2. New Zealand and Austria
X 3. France and Canada
4. New Zealand and Australia
Q. 13 Which force is responsible for the motion of the moon around earth?

Ans
X 1. Van der Waals
2. Centrifugal
3. Frictional
4. Centripetal
Q. 14 Who took oath as the 49th Chief Justice of India in August 2022?

Ans
X 1. Sanjiv Kapoor
X 2. Ajay Kumar Sood
3. Uday Umesh Lalit

X 4. Rajiv Ranjan
Q. 15 Identify the animal that is NOT a non-chordate.

Ans

1. Repltiles

X 2. Arthropods
X 3. Porifera
4. Arachnids
Q. 16 Asiad is regulated by $\qquad$ .
Ans $\quad$ 1. International Olympic Council
2. Commonwealth Games Federation
3. Indian Olympic Council
4. Olympic Council of Asia
Q. 17 Dhuadhar falls originate from which of the following river?

Ans
X 1. Mahanadi
2. Godavari
3. Narmada

X 4. Krishna
Q. 18 In which of the following cases did the Supreme Court of India pronounce the theory of the 'Basic Structure' of the Constitution?
Ans

1. Kesavananda Bharati Case, 1973
2. Golaknath Case, 1967
3. Minerva Mills Case, 1980
4. Swarn Singh Case, 1989
Q. 19 The year whose prices are being used to calculate the real GDP is called $\qquad$ _.
Ans
X 1. current year
X 2. constant year
5. base year
6. fiscal year
Q. 20 Ajmer became the suba headquarters under the $\qquad$ -.

Ans
X 1. Pallavas
2. Cholas
3. Mughals
4. Delhi Sultanate
Q. 21 The headquarters of the National Institute of Oceanography of India is located at:

Ans
X 1. New Delhi
2. Hyderabad
3. Kanyakumari
4. Goa
Q. 22 Unemployment arising due to mismatch between Job availability in the market and skills of available worker is called?

Ans

1. Seasonal
2. Structural
3. Economical
4. Frictional
Q. 23 Ravikirti was the court poet of which of the following dynasty ruler?

Ans
X 1. Cholas
2. Cheras
3. Pallavas
4. Chalukyas
Q. 24 India's First AI-powered, end-to-end digital Lok Adalat was launched in $\qquad$ .
Ans
X 1. Uttar Pradesh
2. Rajasthan

X 3. Madhya Pradesh
4. Gujarat
Q. 25 Kagyed dance, a customary dance festival which is celebrated annually in Sikkim falls in which month?

Ans

1. May
2. October
3. December
4. August
Q. 1

The value of $\sqrt{\frac{1+\cos A}{1-\cos A}}$ is:

Ans
$X 1 . \sec A-\tan A$
2. $\operatorname{cosec} A+\cot A$
3. $\sec A+\tan A$
4. $\operatorname{cosec} A-\cot A$
Q. 2 In a $\triangle A B C$, the median $B E$ intersects $A C$ at $E$. If $B G=12 \mathrm{~cm}$, where $G$ is the centroid, then $B E$ is equal to:

Ans
X 1.16 cm
2. 18 cm
3. 15 cm
4. 13 cm
Q. 3 The table given below shows the number of players participating in two games in six different schools?

|  | Games |  |
| :---: | :---: | :---: |
| Schools | A | B |
| J | 31 | 58 |
| K | 24 | 36 |
| L | 18 | 26 |
| M | 29 | 37 |
| N | 12 | 33 |
| P | 40 | 44 |

What is the ratio of total number of players participating in game $A$ to the total number of players participating in game $B$ ?

Ans
X1.117:77
2. $67: 116$
3. $77: 117$
4. $116: 57$
Q. $4(m x+n)$ is a factor of:

Ans
X1. $m^{2} x^{2}+2 n x+n^{2}$
2. $m^{2} x^{2}+2 m n x+n^{2}$

X $3 . m^{2} x^{2}+2 m x+n^{2}$
X4. $m^{2} x^{2}+2 m n+n^{2}$
Q. $5 \triangle A B C$ is a right-angle triangle at $B$. If $\tan A=\frac{5}{12}$, then $\sin A+\sin B+\sin C$ will be equal to:

Ans
X1. $1 \frac{5}{13}$
2. $2 \frac{4}{13}$

X 3. $3 \frac{1}{13}$
X4. $2 \frac{1}{13}$
Q. 6 Study the given triangle and find the length of BC.


Ans
$x$ 1. $\frac{5}{2}$
2. 6
) 3.5
$\times 4.3$
Q. 7 With an average speed of $45 \mathrm{~km} / \mathrm{h}$, a train reaches its destination on time. If it goes with an average speed of $30 \mathrm{~km} / \mathrm{h}$, it is late by 15 minutes. The total journey is:
Ans
X 1.20 .5 km
X 2. 40.5 km
2. 22.5 km

X 4.30 .5 km
Q. 8 The tax on the salary of C is $\frac{1}{4}$ of the salary and savings are $\frac{1}{3}$ of the salary. The ratio of the expenditures to the savings is $\qquad$ -

Ans
$\times 1.4: 5$
2.4:3
3. $5: 4$
4.3:4
Q. 9 Study the follorwing table and answer the question that follows.

A school has four sections A, B, C and D of Class IX students.
The results of Science and Mathematics examinations are shown in the following table.

| RESULT | No. of Students |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Section <br> A | Section <br> B | Section <br> C | Section D |
| Failed in both | 24 | 25 | 18 | 20 |
| Failed in Science but passed in Mathematics | 14 | 12 | 10 | 15 |
| Passed in Science but failed in Mathematics | 7 | 6 | 8 | 10 |
| Passed in both | 63 | 60 | 56 | 55 |

What is the ratio of number of students who failed in Science but passed in Mathematics of section B and section D together to the number of students of section A that passed in both subjects?

Ans
X1. 9:17
-2. $3: 9$
X3. $4: 9$
X4. 5:11
Q. 10 In a 1200 m race, bike A beats bike $B$ by 100 m . Bike B beats bike $C$ by 100 m in a 600 m race. If bike $A$ beats bike $C$ by 30 sec in a 720 m race, then what is the speed of bike C?

Ans

1. $\frac{17}{3} \mathrm{~m} / \mathrm{sec}$
2. $\frac{26}{9} \mathrm{~m} / \mathrm{sec}$

X 3. $\frac{17}{9} \mathrm{~m} / \mathrm{sec}$
X 4. $\frac{26}{3} \mathrm{~m} / \mathrm{sec}$
Q. 11 The following table gives information of panchayat elections held in six villages $P, Q, R, S, T$ and $U$.

| Village | Total number of votes <br> (in hundreds) | Votes polled <br> (in \%) | Valid votes <br> (in \%) |
| :--- | :--- | :--- | :--- |
| P | 50 | 80 | 80 |
| Q | 60 | 75 | 80 |
| R | 100 | 65 | 65 |
| S | 80 | 60 | 70 |
| T | 60 | 80 | 90 |
| U | 40 | 90 | 60 |

Hint: 1) percentage of votes polled $=\frac{\text { Total votes polled }}{\text { Total number of votes }} \times 100$
2) percentage of valid votes $=\frac{\text { Total valid votes }}{\text { Total votes polled }} \times 100$

Find the ratio of invalid votes of village $R$ to that of village $U$ ?
Ans
X1. $455: 268$
X 2. 321:107

- 3. $455: 288$

X4.423:755
Q. 12 A dishonest trader says to customers that he sells his goods at a cost price, but he uses a false weight and gains $12.5 \%$ as profit. How many grams does he use to weigh 1 kg ?
Ans
X 1.900 g
X 2.880 .5 g
$\times 3.850 \mathrm{~g}$

- 4.888 .8 g
Q. 13 Find the largest number of 3 digits divisible by 4 and 7 .

Ans
$\times 1.960$
2. 980
$\times 3.990$
$\times 4.970$
Q. $14 A$ and $B$ working separately can complete a piece of work in 10 and 16 days, respectively. If they work for a day alternately, with A beginning the work, in how many day(s) will the work be completed?
Ans
$\times 1.10 \frac{1}{4}$
2. $12 \frac{1}{4}$
3. $1 \frac{1}{4}$
4. $\frac{1}{4}$
Q. 15 If the length of the diagonal of a cube is $7 \sqrt{3} \mathrm{~cm}$, then the surface area of the cube is $\qquad$ .

Ans
$\times 1.216 \mathrm{~cm}^{2}$
$2.256 \mathrm{~cm}^{2}$
$\times 3.284 \mathrm{~cm}^{2}$
4. $294 \mathrm{~cm}^{2}$
Q. 16 If $\triangle \mathrm{BPQ} \cong \triangle \mathrm{ASR}$ and $\angle \mathrm{A}=\frac{1}{3} \angle \mathrm{R}=\angle \mathrm{S}$ then find $\angle \mathrm{Q}$. (All angles are in degrees).

Ans

1. $108^{\circ}$
2. $36^{\circ}$
$\times 3.72{ }^{\circ}$
$\times 4.118^{\circ}$
Q. 17 Two identical circles each of radius 30 cm intersect each other such that the circumference of each one passes through the centre of the other. What is the area of the intersecting region?
Ans
$\times 1.400 \pi-250 \sqrt{3} \mathrm{~cm}^{2}$
$\times 2.300 \pi-150 \sqrt{3} \mathrm{~cm}^{2}$
$\times$ 3. $500 \pi-350 \sqrt{3} \mathrm{~cm}^{2}$
3. $600 \pi-450 \sqrt{3} \mathrm{~cm}^{2}$
Q. 18 The marked price of a chair is ₹ 2,400 , which is $20 \%$ above the cost price. If the chair is sold at a discount of $10 \%$ on marked price, what is the profit percentage?
Ans
$\times 1.10 \%$
4. $8 \%$
$\times 3.9 \%$
X4. $26.2 \%$
Q. 19 A sum becomes Rs. 15,500 in 7 years on simple interest at the rate of 30 percent per annum. What is the total interest for the 7 years?
Ans
X 1.Rs.12,200
X 2. Rs.1,47,000
5. Rs.10,500

X 4.Rs.11,500
Q. 20 Study the given table and answer the question that follows.

The table shows the percentage of marks obtained by 7 students in different subjects.

| Subject | Hindi | English | Maths | Physics | Chemistry | Biology | IT |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Students |  |  |  |  |  |  |  |
| Amit | 67 | 88 | 92 | 88 | 58 | 60 | 98 |
| Ruchi | 65 | 78 | 68 | 70 | 64 | 72 | 76 |
| Kanchan | 89 | 66 | 76 | 76 | 72 | 68 | 76 |
| Prashant | 88 | 80 | 72 | 68 | 62 | 64 | 72 |
| Mrinal | 78 | 64 | 76 | 74 | 68 | 80 | 78 |
| Kunal | 60 | 86 | 88 | 74 | 94 | 76 | 84 |
| Diksha | 74 | 92 | 96 | 66 | 86 | 88 | 96 |

How many students have scored the highest percentage of marks in more than one subject?
Ans
$X$ 1. Four
X 2. Three
3. Two
$X$ 4. One
Q. 21

If $x+y+z=0$, then what is the value of $\frac{x^{2}}{(y z)}+\frac{y^{2}}{(x z)}+\frac{z^{2}}{(x y)} ?$
Ans
$\times 1.1$
$\times 2.0$
$\times 3$.

- 4.3
Q. 22 What is the possible value of $(a+b+c)-3$, if $a^{2}+b^{2}+c^{2}=9$ and $a b+b c+c a=8 ?$

Ans
$\times 1.5$
$\times 2.3$
$\times 3.9$

- 4.2
Q. 23 If the 8-digit number 123456xy is divisible by 8, then the total possible pairs of ( $x, y$ ) are:

Ans
$\times 1.8$

- 2.13
$\times 3.10$
$\times 4.11$
Q. 24 The area of a sector of a circle is $308 \mathrm{~cm}^{2}$, with the central angle measuring $45^{\circ}$. The radius of the circle is:

Ans
$\times 1.14 \mathrm{~cm}$
$\times 2.21 \mathrm{~cm}$
X 3.7 cm
4. 28 cm
Q. 25 The cost of apples is increased by $20 \%$ and then decreased by $20 \%$. What is the net pecentage decrease?

Ans

1. $4 \%$
2. $3 \%$
3. $5 \%$
< $4.6 \%$

## Section : English Comprehension

Q. 1 Select the most appropriate option to fill in the blank.

The anchor gave us a $\qquad$ welcome, a pleasant smile and a bouquet on reaching the hotel.

Ans

1. warm
2. worth
3. winning
4. wonderful
Q. 2 Select the correct passive voice form for the given sentence.

Rashi was writing a letter to her husband.
Ans

1. A letter was being written by Rashi to her husband.
2. A letter were being written by Rashi to her husband.
3. A letter was been written by Rashi to her husband.
4. A letter were been written by Rashi to her husband.
Q. 3 Select the option that can be used as a one-word substitute for the given group of words.

The study of languages
Ans

1. Philology

X 2. Anthropology
X 3. Lexicography
X 4. Philosophy
Q. 4 Select the most appropriate ANTONYM of the given word.

## Exemplary

Ans
$\times 1$. Flattering
2. Unsatisfactory
3. Imitative
4. Desirable
Q. 5 Choose the incorrectly spelt word.

Ans
X 1. Irritating
X 2. Pedestrian
X 3. Enervating
4. Beguilling
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

Sharp and direct
Ans

1. Acerbic
2. Zoonic

X 3. Anodyne
4. Acidic
Q. 7 Select the most appropriate synonym of the given word.

Keen
Ans

1. Happy
2. Enthusiastic
3. Wild
4. Imitate
Q. 8 Select the INCORRECTLY spelt word.

Ans
X 1. Adopt
2. Acces

X 3. Abandon
4. Abase
Q. 9 Select the option that can be used as a one-word substitute for the underlined group of words.

After my father passed away, I used to look at a series of stars, trying to find the unknown.
Ans
X 1. Galaxy
2. Constellation

X 3. Caravan
X 4. Horde
Q. 10 Select the option that can be used as a one-word substitute for the given group of words.

One who does something not professionally but for pleasure
Ans
X 1. Professional
2. Mature
3. Immature
4. Amateur
Q. 11 Select the most appropriate ANTONYM of the word 'polite' in the given sentence.

The rude and insensitive murderer pleaded for mercy in the court.
Ans
X 1. Pleaded
$\times 2$. Mercy
X 3. Insensitive
4. Rude
Q. 12 The following sentence has been split into four segments. Identify the segment that contains an error.

The newspaper reported / that it was a mystery / how the thieves enter / into the house.
Ans
$\times 1$. into the house
2. how the thieves enter
3. that it was a mystery

X 4. The newspaper reported
Q. 13 Select the word that is OPPOSITE in meaning to the given word.

Adversity
Ans

1. Fortune
2. Affliction
3. Brilliance
4. Penury
Q. 14 Select the option that expresses the given sentence in active voice.

Let the farewell be bidden to our seniors.
Ans
X 1 . We should be bidden farewell by our seniors.
2. Our seniors should bid farewell to us.
3. Let us bid farewell to our seniors.
4. Our seniors should be bidden farewell.
Q. 15 Rearrange the parts of the sentence in correct order.

The nanostructures on the
P. with added, or "doped," iron and phosphor
Q. surface made of nickel selenide
R. offers the high performance and stability
S. that are needed for industrial-scale electrolysis

Ans

1. QPRS
2. QRSP

X 3.RPQS
X 4. SPQR
Q. 16 Select the most appropriate collocating word to fill in the blank.

I listened to him with $\qquad$ attention.
Ans
$X 1$. hefty
X 2. massive
3. rapt

X 4. vast
Q. 17 Parts of the following sentence have been given as options. Select the option that contains a grammatical error. If you don't find any error, mark 'No error' as your answer.

Amla juice / is rich with / Vitamin C. / no error
Ans
$\times 1$. Vitamin $C$.
2. Amla juice
3. No error
4. is rich with
Q. 18 Select the correct indirect form of the given sentence.

Kavya said to her husband, "I don't mind being a busy woman."
Ans
X 1. Kavya told her husband that she had not mind being a busy woman.
2. Kavya told her husband that she do not mind being a busy woman.

X 3. Kavya said to her husband she did not mind being a busy woman.
4. Kavya told her husband that she did not mind being a busy woman.
Q. 19 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. The award is named after Alfred Nobel, the Swedish inventor of dynamite.
Q. A Nobel Prize is an award that is given to someone whose work has benefitted society.
R. This award is given in six categories, and medicine is one of those categories.
S. This year Professors David Julius and Ardem Petapoutian have won this prize for medicine.
Ans
X 1. SPQR
X 2. PQSR
X 3. SQRP
4. QPRS
Q. 20 Select the most appropriate option to fill in the blank.

They hired her to increase sales, but her strategies failed to
Ans

1. move the needle

X 2. burn bridges
X 3. spill the beans
X 4. get a second wind

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1) $\qquad$ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2) $\qquad$ -.
Because our desire for perfection is so great, we (3) $\qquad$ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4) $\qquad$ ; despite everything we have done, we still feel (5) $\qquad$ inside.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
$\times 1$. high
X 2. good
3. low

X 4. better

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1) $\qquad$ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2) $\qquad$ . Because our desire for perfection is so great, we (3) $\qquad$ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4) $\qquad$ ; despite everything we have done, we still feel (5) $\qquad$ inside.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

X 1. anxiety
X 2. obstacles
X 3. actions
4. achievements

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1) $\qquad$ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2) $\qquad$ . Because our desire for perfection is so great, we (3) $\qquad$ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4) $\qquad$ ; despite everything we have done, we still feel (5) $\qquad$ inside.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. come
2. tend

X 3. wish
X4. crave

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1) $\qquad$ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2) $\qquad$ Because our desire for perfection is so great, we (3) $\qquad$ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4) $\qquad$ ; despite everything we have done, we still feel (5) $\qquad$ inside.

SubQuestion No: 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans

1. disappointed
2. flattered
3. protected
4. glad

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1) $\qquad$ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2) $\qquad$ Because our desire for perfection is so great, we (3) $\qquad$ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4) $\qquad$ ; despite everything we have done, we still feel (5) $\qquad$ inside.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. satisfied
2. empty
( 3. lively
4. honoured

Combined Graduate Level Examination Tier I 2022

| Roll Number | WwW．HaryanaJobs．in |
| :--- | :--- |
| Candidate Name | Www．HaryanaJobs．in |
| Venue Name | Adhya Infotech |
| Exam Date | 03／12／2022 |
| Exam Time | 9：00 AM－10：00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section：General Intelligence and Reasoning
Q． 1 Three different positions of the same dice are shown（figures 1 to 3）．Find the number on the face opposite to the face having＇ 1 ＇．

figure 1

figure 2

figure 3

Ans
$\times 1.6$
－ 2.4
$\times 3.5$
$\times 4.3$

Q． 2 Select the correct mirror image of the given combination when the mirror is placed at＇PQ＇as shown below．

ECONOMIST ${ }^{p}$
Q
Ans TLIMOИOJヨ
$\times 2$ T2IMOИЈОヨ
${ }^{\times 2}$ TLIMSUJOヨ
＊．T2MISUJOヨ
Q. 3 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans
$\times 1$

$\times 2$


- 3. 


$\times 4$

Q. 4 In a certain code language, 'MOBILE' is written as 'PRELOH' and 'SILENT' is written as 'VLOHQW', how will 'PAINTING' be written in that language?
Ans
X 1. SDLQVKPI
2. SDLQWLQJ

X 3. RCKPWLQJ
X 4. RCKPVKPI
Q. 5 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits.)
$(36,90,18)$
$(15,35,8)$
Ans

1. $(14,45,5)$
2. $(14,42,7)$
3. $(13,78,6)$
4. $(12,60,8)$
Q. 6 If $P+Q$ means that $P$ is the mother of $Q, P \div Q$ means that $P$ is the father of $Q, P-Q$ means that $P$ is the sister of $Q$, then which of the following expression shows that $A$ is the maternal grandfather of C ?
Ans
$X 1 . B \div A+C$
X2. $A-B \div C$
X $3 . A+B \div C$
2) $4 . A \div B+C$
Q. 7 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
ROAR : QZNQ :: HEAR : QZDG :: DAMP : ?
Ans
X 1. MPAD
2. OLZC
3. BCOA
4. PMAD
Q. 8 By Interchanging the given two numbers which of the following equation will be not correct?
5 and 9
Ans
X $1.9 \times 4+5-8 \div 2=25$
5. $9-5 \times 4+6 \div 3=-30$

X $3.9+7 \times 8 \div 4-5=10$
X4. $9-4 \times 5+6 \div 2=-28$
Q. 9 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans
$\times 1$

$\times 2$

$\times 3$.

$\checkmark 4$.

Q. 10 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(452, 50, 63)
(260, 35, 30)
Ans
X 1. $(330,30,45)$
X 2. $(260,30,25)$

- 3. $(260,50,15)$
$\times 4 .(230,15,45)$
Q. 11 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

Ans

1. CGB
2. FYI
3. RKU
4. KDN
Q. 12 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(12,42,7)$
$(13,52,8)$
Ans
X $1 .(8,7,43)$
X 2. $(7,12,6)$
$\times 3 .(9,26,8)$

- 4. $(9,18,4)$
Q. 13 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
WINDOW : XFOELX :: TICKET : UFDLBU :: REGION : ?
Ans


## 1. SBHFLO

2. SHFKLO
3. BHFDLO
4. HFSOKL
Q. 14 Which of the following letter-clusters will replace the question mark (?) in the given
series?
DAJ, GEL, JIN, MMP, ?
Ans
X 1.PRS
5. QPU
6. QRT
7. PQR
Q. 15 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$14 \times 6 \div 12+15-9=203$
Ans
8. $15,6+\div$
9. $12,15,-, \times$
10. $12,9, \div$,
11. $14,6, \div, x$
Q. 16 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).
Statements:
Some bulbs are switches.
No switch is a vase.
All fans are switches.
Conclusions:
I. Some bulbs being fans is a possibility.
II. No fan is a vase.
III. All switches are fans.
IV. No bulb is a vase.

Ans
X 1. Only Conclusions II and III follow
2. Only Conclusions I and II follow

X 3. Only Conclusions I, II and IV follow
X 4. Only Conclusion I follows
Q. 17 A \# $B$ means ' $A$ is the mother of $B$ '.
$A$ @ $B$ means ' $A$ is the son of $B$ '.
$A$ \& $B$ means ' $A$ is the brother of $B$ '.
$A \% B$ means ' $A$ is the wife of $B$ '.
If $\mathbf{W} \# \mathrm{Q}$ @ $\mathrm{T} \& \mathrm{Y} @ \mathrm{M} \% \mathrm{~K}$, then how is K related to W ?
Ans
X 1. Father
2. Father-in-law

X 3. Brother-in-law
$\times 4$. Brother
Q. 18 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some $W$ are $F$.
II. Some $R$ are $F$.

Conclusion:
I. Some R are not W.
II. No W is R.

Ans
X 1. Only conclusion I follows
X 2. Both conclusions I and II follows
X 3. Only conclusion II follows
2. Neither conclusion follows
Q. 19 In a certain code language, 'BREAK' is written as ' 2182111 ' and 'COLOUR' is written as ' 34124518 '. How will 'TRING' be written in that language?

Ans

1. 20181347
2. 20189147
3. 20183147
4. 20183174
Q. 20 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation. 20 * 2 * 50 * 5 * 115

Ans
Х1.,$- \times,=,+$
2.,$+ \times,=,-$
3.,$+ \times,-,=$
4.,$- \times,+,=$
Q. 21 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1- Expensive
2- Expedition
3- Experience
4- Expel
5- Expenditure
Ans

1. $2,4,5,1,3$
2. $2,4,5,3,1$
3. 5, 2, 1, 4, 3
4. $4,2,5,1,3$
Q. 22 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
RMTS, WGAK, BAHC, GUOU, ?
Ans
5. LMNO
6. LOVM
7. LovQ
8. LMNQ
Q. 23 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$\times 1$.

$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 24 In the following question, select the missing number from the given series.

1, 22, 44, 67, 91, ?
Ans

1. 116
$\times 2.106$
$\times 3.115$
$\times 4.118$
Q. 25 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation.
Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1.7-71
X 2. 11-111
X 3.8-81
2. 12-167

Section : General Awareness
Q. 1 Any natural mass of mineral matter that makes up the earth's crust is $\qquad$ -
Ans
X 1. Garbage
2. Rock

X 3. Stone
$\times 4$. Fossil
Q. 2 Rajashree Shirke was given which of the following prestigious dance awards of 2013 for her excellence in Kathak?

Ans

1. Sangeet Natak Academy Award
2. Padma Shri
3. Kalidas Samman
4. National Film Award
Q. 3 Who was the captain of the Indian hockey men's team at Olympic 2020?

Ans

1. Manpreet Singh

X 2. Amit Rohidas
X 3. Sreejesh Ravindran
4. Krishan B Pathak
Q. 4 An exponent of Hindustani classical music, Gangubai Hangal was an eminent singer to have hailed from the $\qquad$ gharana of the Hindustani Khyal family.
Ans

1. Patiala
2. Kirana
3. Agra
4. Gwalior
Q. 5 If we deduct depreciation from GNP the measure of aggregate income that we obtain is called $\qquad$ _.
Ans
5. Gross Domestic Product at market prices
6. Gross Domestic Product
7. Net National Product
8. Personal income
Q. 6 The chemical formula of borax is $\qquad$ .

Ans
$X$ 1. $\mathrm{Na}_{2} \mathrm{~B}_{5} \mathrm{O}_{7} \cdot 10 \mathrm{H}_{2} \mathrm{O}$
2. $\mathrm{Na}_{2} \mathrm{~B}_{4} \mathrm{O}_{7} \cdot 10 \mathrm{H}_{2} \mathrm{O}$
$\times$ 3. $\mathrm{Na}_{2} \mathrm{~B}_{4} \mathrm{O}_{7} .5 \mathrm{H}_{2} \mathrm{O}$
$X$ 4. $\mathrm{Na}_{2} \mathrm{~B}_{4} \mathrm{O}_{7} .12 \mathrm{H}_{2} \mathrm{O}$
Q. 7 OYO partnered with the Jammu and Kashmir administration to launch a rural tourism initiative. What this initiative is called?
Ans

1. Weaving a Better Future
2. Crown of Incredible India
3. Shared Planet
4. United India
Q. 8 Chief Minister Shramik Kalyan Prakalp scheme was launched by Amit Shah for women of $\qquad$ -.
Ans
5. Bihar
6. Tripura
7. Haryana
8. Jharkhand
Q. 9 Players that stop dribbling in handball have to pass or shot within:

Ans $\times 1.5$ second
X 2. 30 second
X 3.10 second

- 4.3 second
Q. 10 Which of the following sequence is correct with respect to the Delhi Dynasties?

Ans
X 1. Khalji dynasty, Lodi dynasty, Sayyid dynasty
X 2. Tughluq dynasty, Khalji dynasty, Sayyid dynasty
3. Early Turkish Rulers, Rajput dynasties, Khalji dynasty
4. Rajput dynasties, Khalji dynasty, Tughluq dynasty
Q. 11 Which of the following is NOT a classification of E-Commerce?

Ans $\quad$ 1. B2C (Business-to-Consumer)
2. D2D (Distributor-to-Distributor)

X 3. C2C (Consumer-to-Consumer)
4. B2B (Business-to-Business)
Q. 12 $\qquad$ takes oath as new Meghalaya Governor in October 2022.
Ans

1. B.D. Mishra
2. A K Anil Kumar

X 3. Prashant Kumar
4. Sunil Barthwal
Q. 13 There are $\qquad$ main types of cell division.
Ans
$\times 1.4$
2. 2
3.3
4.5
Q. 14 The first session of Indian National congress was held at $\qquad$ .
Ans

1. Bombay

X 2. Madras
X 3. Calcutta
X 4. Surat
Q. 15 An electric current is expressed by a unit called $\qquad$ .

Ans
X 1. meter
2. ampere
3. watt
4. joule
Q. 16 How thick is the lithosphere?

Ans
X 1.25 to 45 kilometres
2. 10 to 25 kilometres
3. 10 to 200 kilometres
4. 5 to 10 kilometres
Q. 17 Who among the following is related to the musical instrument Santoor?

Ans

1. Pandit Shivkumar Sharma
2. Pandit Ravishankar Prasad
3. Pandit Hariprasad Chaurasia
4. Pandit Jasraj
Q. 18 Chemical formula of magnesium oxide is $\qquad$ -.
Ans
$\times 1 . \mathrm{MgCO}^{3}$
5. $\mathrm{MgO}^{2}$
6. MgO
7. $\mathrm{Mg}(\mathrm{OH})^{2}$
Q. 19 The Constitution forbids employment of children below the age of $\qquad$ years in dangerous jobs like factories and mines.
Ans
$\times 1.15$
8. 14
9. 16
< 4.18
Q. 20 Which of the following is not a natural fibre?

Ans
X 1. Linen
2. Cotton
3. Rayon
4. Jute
Q. 21 Which of the following statements is NOT correct with reference to the election of the President of India?

Ans

1. He/She is indirectly elected by the elected MLAs and MPs.
2. The President is elected for a period of five years.
3. All doubts and disputes in connection with the President's election can be inquired
into and decided by both the Supreme Court and the High Courts.
4. The election takes place in accordance with the principle of proportional representation.
Q. 22 Which of the following is celebrated as the New Year in Tamil Nadu?

Ans
X 1. Pongal
2. Puthandu

X 3. Ugadi
4. Onam
Q. 23 In the early eleventh century, the Chola king Rajendra I built a Shiva temple and filled it with a Sun-pedestal seized from the $\qquad$ —.
Ans
(1. Palas
2. Vakatakas
3. Chalukyas
4. Kalingas
Q. 24 Which of the following offices was NOT held by the poet Harishena?

Ans
X 1. Sandhi-vigrahika
X 2. Maha-danda-nayaka
2. Nagara-shreshthi

X 4. Kumar-amatya
Q. 25 $\qquad$ is found in association with rocks composed of calcium carbonates?

Ans $\qquad$ Limestone

X 2. Gold
X 3. Iron
X 4. Diamond

Section : Quantitative Aptitude
Q. 1 A car starts from point A towards point B, travelling at the speed of $20 \mathrm{~km} / \mathrm{h} .1 \frac{1}{2}$ hours later, another car starts from
point A and travelling at the speed of $30 \mathrm{~km} / \mathrm{h}$ and reaches $2 \frac{1}{2}$ hours before the first car. Find the distance between A and $B$.

Ans
< 1.300 km
2. 240 km
3. 260 km
4. 280 km
Q. 2 The difference between a discount of $25 \%$ and two successive discounts of $15 \%$ and $10 \%$ on a certain bill was ₹ 25 . Find the amount of the bill.
Ans
X 1. ₹ $3,333.33$
$\times 2$. $₹ 2,500$
$\times$ 3. ₹ 833.33

- 4. ₹ $1,666.67$
Q. 3 A trader has a weighing balance that shows 1300 g for a kg . He further marks up his cost price by $15 \%$. The net profit percentage is:
Ans
X 1.48.5\%

2. $49.5 \%$
3. $50 \%$
4. $45 \%$
Q. 4 The nearest number which is greater to 87501 , and is completely divisible by 765 is :

Ans
$\times 1.88975$
2. 87975
3. 87966
4. 87775
Q. 5

Simplify: $\frac{\cos A}{1+\tan A}-\frac{\sin A}{1+\cot A}$

Ans

1. $\tan A$
2. $\cos A-\sin A$
3. $\cos A \cdot \sin A$
4. $\cos A+\sin A$
Q. 6 In triangle $A B C$, the bisector of angle $B A C$ cuts the side $B C$ at $D$. If $A B=10 \mathrm{~cm}$, and $A C$ $=14 \mathrm{~cm}$, then what is $B D: B C$ ?

Ans
X 1. 10:7
2. $5: 7$
3.7:5
4.7:10
Q. 7 The table given below shows the number of people in different states.

| States | Number of people |
| :---: | :---: |
| A | 174 |
| B | 200 |
| C | 144 |
| D | 195 |
| E | 280 |

What is the ratio of number of people in state $C$ to the number of people in state $E$ ?
Ans
$\times 1.31: 17$
X 2. $35: 18$

- $3.18: 35$
$\times 4.17: 29$
Q. 8 ₹5,000 is divided into two parts such that if one part is invested at $4 \%$ and the other at $5 \%$, then the whole annual interest from both the sums is ₹ 223 . How much was invested at 4\%?

Ans

- 1. ₹2,600

2. ₹ 2,700

X 3. ₹ 2,400
$\times 4$. ₹ 2,300
Q. 9 The table given below shows the number of truck sold by six companies.

| Companies | Truck |
| :---: | :---: |
| J | 40 |
| K | 60 |
| L | 80 |
| M | 110 |
| N | 120 |
| O | 80 |

Number of trucks sold by $L$ are what percent of number of trucks sold by J ?
Ans
X 1.100 percent
X 2. 250 percent
2. 200 percent

X 4.150 percent
Q. 10 If the volume of a sphere is $24,416.64 \mathrm{~cm}^{3}$, find its surface area (take $\pi=3.14$ ) correct to two places of decimal.
Ans
X 1. $3069.55 \mathrm{~cm}^{2}$
2. $4069.44 \mathrm{~cm}^{2}$

X 3. $5069.66 \mathrm{~cm}^{2}$
X4. $6069.67 \mathrm{~cm}^{2}$
Q. 11
$\frac{1}{1+\cos \left(90^{\circ}-\theta\right)}+\frac{1}{1-\cos \left(90^{\circ}-\theta\right)}=$ $\qquad$ .

Ans
(1. $2 \sec ^{2} \theta$
$\times 2.1$
$\times 3.0$
x 4. $2 \tan ^{2} \theta$
Q. 12 If $\left(4 a+\frac{5}{a}+5\right)=14$, what is the value of $\left(16 a^{2}+\frac{25}{a^{2}}\right)$ ?

Ans
$\times 1.25$
$\times 2.36$

- 3.41
$\times 4.40$
Q. 13 Study the following table and answer the question that follows.

A school has four sections A, B, C and D of Class IX students.
The results of Science and Mathematics examinations are shown in the following table.

| RESULT | No. of Students |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Section A | Section B | Section C | Section D |
| Failed in both | 24 | 25 | 18 | 20 |
| Failed in Science but passed in Mathematics | 14 | 12 | 10 | 15 |
| Passed in Science but failed in Mathematics | 7 | 6 | 8 | 10 |
| Passed in both | 63 | 60 | 56 | 55 |

What percentage of students of section C Passed in Science but failed in Mathematics?
Ans
8.70\%
2. $9.20 \%$
3. $9.85 \%$
4. $10.30 \%$
Q. 14 Ruchi, Khushi and Teju can do a piece of work in 30, 40 and 60 days respectively. In how many days can Ruchi do the work, if she is assisted by both Khushi and Teju on every third day?

Ans
X 1. $\frac{550}{12}$ days
2. $\frac{85}{4}$ days

X 3. $\frac{71}{2}$ days
X4. $\frac{360}{17}$ days
Q. 15 If the diameter of a sphere is 3.5 cm , then what is the total surface area of the sphere?

Ans
$\times 1.45 .75 \mathrm{~cm}^{2}$
$\times 2.42 .6 \mathrm{~cm}^{2}$

- $3.38 .5 \mathrm{~cm}^{2}$
$4.34 .25 \mathrm{~cm}^{2}$
Q. 16 Ram loses $12 \frac{1}{2} \%$ of his money and after spending $75 \%$ of the remainder, is left with $₹ 630$. How much money did Ram have initially?

Ans
X 1. ₹2,080
2. ₹ 2,880

X 3. ₹2,205
X4. ₹2,808
Q. 17 If $x-\frac{1}{x}=13$, what will be the value of $x^{4}+\frac{1}{x^{4}}$ ?

Ans $\times 1.28561$
( 2. 29243
3. 27887
4. 29239
Q. 18 Study the given chart and answer the question that follows.

The chart shows the quantities of machines (M1, M2, M3) available in different stores (S1, S2, S3, S4).


Which stores have more number of M2 machines than the average number of M2 machines per store?

Ans
X 1. S2 and S4
2. S1 and S3
3. S2 and S3
4. S1 and S4
Q. 19 If $\mathbf{a}: \mathbf{b}=\mathbf{c}: \mathbf{d}$, then which of the following ratio is equal to $\mathbf{a}: \mathbf{c}$ ?

Ans
X1.a:d
X 2.b:c
X 3. $a+d: b+c$
4. $a+b: c+d$
Q. 20 The factors of $x^{4}+x^{2}+25$ are:

Ans
$x^{1} \cdot\left(x^{2}+3 x-5\right)\left(x^{2}-3 x+5\right)$
2. $\left(x^{2}+3 x+5\right)\left(x^{2}-3 x+5\right)$

X ${ }^{3} \cdot\left(x^{2}-3 x+5\right)\left(x^{2}-3 x+5\right)$
X4. $\left(x^{2}+3 x+5\right)\left(x^{2}+3 x+5\right)$
Q. 21 The area of a sector of a circle is $66 \mathrm{~cm}^{2}$ and the angle of the sector is $60^{\circ}$. Find the radius of the circle.
Ans
$\times 1.5 \sqrt{15} \mathrm{~cm}$
X2. $6 \sqrt{14} \mathrm{~cm}$
X 3. $7 \sqrt{19} \mathrm{~cm}$

- 4. $3 \sqrt{14} \mathrm{~cm}$
Q. 22 Calculate the HCF of $\frac{12}{5}, \frac{14}{15}$ and $\frac{16}{17}$.

Ans
$\times 1 . \frac{4}{255}$
$\times 2 . \frac{3}{255}$
3. $\frac{2}{255}$
4. $\frac{1}{255}$
Q. 23 If $(\cos q+\sin q)=31 / 25$, then what will be the value of $\cos ^{2} q$ ?

Ans
X $1.522 / 625$
× $2.512 / 625$
X $3.513 / 625$
4. $527 / 625$
Q. 24 The average marks of 60 students in a class are 62. The average marks of boys and girls in that subject are 60 and 65 , respectively. The number of boys in the class is:
Ans

1. 36
$\times 2.25$
$\times 3.41$
4.31
Q. 25 Select the correct option with respect to the given statement. Two tangents are drawn at the end of the diameter of a circle.
Ans
X 1. They intersect each other.
X 2. They pass through origin.
2. They are parallel to each other.
$X 4$. They are perpendicular to each other.

## Section: English Comprehension

Q. 1 Fill in the blank with the correct collocation.

Motorists committing this infraction are $\qquad$ fined.

Ans
X 1. wholly
2. hardly
3. slowly
4. heavily
Q. 2 Select the most appropriate meaning of the given idiom. Fair and square
Ans

1. Honestly
2. Fair-skinned
3. Being vague
4. Good looking
Q. 3 Select the most appropriate option to substitute the underlined segment in the given sentence.

I used to swim across the river when I was young.
Ans
X 1. will swim across
$X$ 2. was swimming across
3. could swim across

X 4. can swim across
Q. 4 Select the option that contains a grammatical error in the underlined portion.

I have never played any game of side this track during the season.
Ans

1. I have never played any game off side this track during the season.
2. I have never played any game of side this track during the season.

X 3 . I have never played any game off side this track during the season.
X 4. I have never played any_game off side this track during the season.
Q. 5 Select the most appropriate option to fill in the blank.

We decided to $\qquad$ as we were missing him a lot.
Ans $\quad$ 1. give a visit
X 2. take a visit
3. bring in a visit
4. pay him a visit
Q. 6 Select the correct indirect form of the given sentence. Latika said to him, "I got a hefty discount on this television."
Ans
X 1. Latika told him that she has got a hefty discount on that television.
2. Latika told him that she is getting a hefty discount on that television.
3. Latika told him that she had got a hefty discount on that television.
4. Latika told him that she has got a hefty discount on this television.
Q. 7 Select the option that can be used as a one-word substitute for the given group of words.

One who mediates in a deal or complex situation
Ans
X 1 . Equaliser
X 2. Solicitor
X 3. Pacifier
4. Negotiator
Q. 8 Select the most appropriate ANTONYM of the given word.

## Ambition

Ans

1. Intent
2. Anxiety
3. Object
4. Laziness
Q. 9 Select the most appropriate synonym of the word 'stagnant' from the following sentence.

Reeta was motionless after knowing that her brother had become mentally unstable after seeing the fatal accident on Tuesday night.
Ans

1. Motionless
2. Fatal
3. Unstable
4. Accident
Q. 10 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Last before year, Shirley got very good grades.
Ans
$X 1$. The last year before
2. Before last year
3. The year before last
4. Before year last
Q. 11 Select the correct passive form of the given sentence.

The new owners hired a lot of new servers.
Ans

1. A lot of new servers were hired by the new owners.
2. A lot of new servers are being hired by the new owners.
3. A lot of new servers are hired by the new owners.
4. A lot of new servers had been hired by the new owners.
Q. 12 Select the sentences that contains no spelling errors.

Ans
X 1. I heard raucouos laughter from the next room.
2. I heard raocous laughter from the next room.
3. I heard raucus laughter from the next room.
4. I heard raucous laughter from the next room.
Q. 13 Select the most appropriate synonym of the bracketed word to fill in the blank.

There is a huge generation $\qquad$ (void) between Arun and his grandparents.
Ans

1. traditions
2. gap

X 3. memory
4. experience
Q. 14 Select the most appropriate synonym of the underlined word in the given sentence.

The perils of smoking tobacco can never be ignored.
Ans
X 1. Delights
X 2. Benefits
3. Hazards

X 4. Humiliations
Q. 15 Select the most appropriate option that can substitute the underlined segment in the given sentence.
I am been working here for the past ten years.
Ans

1. have been working here
2. is been working here
3. was been working here
4. had been working here
Q. 16 Select the most appropriate option to fill in the blank.

Seeing my messy room, my mother taught me to keep everything in order. Now my room is $\qquad$ —.

Ans
X 1. on demand
X 2. of no avail
3. spick and span

X 4. high and dry
Q. 17 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

There is a whole world / out there that / is invisible from / the naked eye.
Ans
$X$ 1. the naked eye
2. is invisible from
$X 3$. There is a whole world
$\times 4$. out there that
Q. 18 Select the option that expresses the given sentence in passive voice.

Had they not cleared the exam?
Ans
$\times 1$. Is the exam not been cleared by them?
2. Have the exam not been cleared by them?
3. Was the exam not been cleared by them?
4. Had the exam not been cleared by them?
Q. 19 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. In Tokyo, they built an expressway linking the international airport in Haneda to the centre, and widened some of the city's major arteries.
Q. These infrastructure improvements helped to bring about the Japanese economic miracle over the next couple of decades.
R. Tokyo 2020 was supposed to be a great economic stimulus, replicating the achievements of Tokyo 1964.
S. It was thanks to hosting that Olympics that Japan invested in infrastructure such as the famous Shinkansen bullet train.
Ans

1. RSPQ
2. QPRS
3. SRQP
4. PQRS
Q. 20 In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'.

Getting a compliment from her husband was a rare occurrance in Rashmila's life.
Ans

1. occurrence
2. ocurrance
3. No error
4. ocurrancce

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) $\qquad$ demanding for students as a result of different internal and external expectations. Teenagers are especially (2) $\qquad$ to academic stress because
they go through so many personal and social changes. As a result, designing effective and efficient (3) $\qquad$ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4) $\qquad$ aspects of anyone's
life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) $\qquad$ in future.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. becomes
2. became
3. become
4. becoming

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) $\qquad$ demanding for students as a result of different internal and external expectations. Teenagers are especially (2) $\qquad$ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) $\qquad$ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4) $\qquad$ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) $\qquad$ in future.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. scared
2. prone

X 3. liable
X 4. resistance

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) $\qquad$ demanding for students as a result of different internal and external expectations. Teenagers are especially (2) $\qquad$ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) $\qquad$ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4) $\qquad$ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) $\qquad$ in future.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. collateral
2. intervention
3. convention
4. physical

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) $\qquad$ demanding for students as a result of different internal and external expectations. Teenagers are especially (2) to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) $\qquad$ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4) $\qquad$ aspects of anyone's
life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) $\qquad$ in future.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. more important
X 2. most eager
3. most crucial
$X 4$. more urgent

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) $\qquad$ demanding for students as a result of different internal and external expectations. Teenagers are especially (2) $\qquad$ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) $\qquad$ solutions requires a thorough understanding of the causes and
consequences of academic stress. Exams are one of the (4) $\qquad$ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) $\qquad$ in future.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans

- 1. ambiguity

X 2. sneak
X 3. wanderlust
4. purpose

## Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WwW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Bopal |
| Exam Date | 03/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 What should come in place of the question mark (?) to complete the following letter cluster series?
FHG, IKJ, LNM, ?
Ans
$X$ 1. QOP
X 2. OPQ
3. OQP
$\times 4 . \mathrm{PRQ}$
Q. 2 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans
v1.

$\times 2$.

$\times 3$.

H
Q. 3 After arranging the given words according to dictionary order, which word will come at 'Fifth' position?

1. Version
2. Versus
3. Versicolour
4. Verse
5. Verso

Ans
X 1. Verso
2. Versus

X 3. Version
X 4. Verse
Q. 4 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
23 * 2 * 2 * 5 * 18
Ans
1.,$- \div, \times,=$
( 2.,$- \div,+,=$
X 3.,$- \div,=,+$
Х4.,$- \times, \div=$
Q. 5 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 3$

$\times 4$

Q. 6 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
EACH : AEHC :: GAME : AGEM :: IDOL : ?
Ans
X 1. OLDI
2. DILO

X 3. IDLO
4. DIOL
Q. 7 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1.ANHS
X 2. JEQJ
3. JPRT

X 4. PYWD
Q. 8 By interchanging the given two signs and numbers which of the following equation will be correct? $x$ and +6 and 4
Ans
$\times 1.3 \times 9-4 \div 2+6=8$
X2. $8 \times 6+4 \div 2-5=-5$
X $3.8-3 \times 6+4 \div 1=18$

- $4.7 \times 6-4+9 \div 3=-7$
Q. 9 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(26,120,34)$
$(14,110,41)$
Ans

1. $(36,106,17)$
2. $(72,240,16)$
3. $(44,114,24)$
4. $(15,450,8)$
Q. 10 In a certain code language, 'LAPTOP' is written as 'JYNRMN' and 'COLD' is written as 'AMJB', how will 'SKETCHPEN' be written in that language?

Ans

1. RJDSBHODM
2. QICRBHODM
3. QICRAFNCL
4. RJDSAFNCL
Q. 11 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All pencil are pen.
II. Some pen are rubber.

Conclusion:
I. All rubber are pencil.
II. Some pen are not pencil.
III. Some rubber are not pen.

Ans

1. Neither conclusion follows
2. Only conclusion II follows
3. Both conclusions I and III follows
4. All conclusion follows
Q. 12 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 3 '.


Figure 1
Figure 2
Figure 3
Ans
$\times 1.5$

- 2.2
- 3.1
<4.6
Q. 13 Which number will replace the question mark (?) in the following series? 26, 54, 110, 222, ?, 894

Ans

1. 446
2. 442
3. 440
4. 444
Q. 14 If $X-Y$ means that $X$ is the mother of $Y, X \times Y$ means that $X$ is the father of $Y, X \div Y$
means that $X$ is the sister of $Y$, then which of the following expression shows that $Q$ is the son of $P$ ?

Ans
$X 1 . P-Q \div R$
2. $P-Q \times R$

X 3. $Q-P \times R$
X4. $R \times Q-P$
Q. 15 A \# $B$ means ' $A$ is the brother of $B$ '
$A @ B$ means ' $A$ is the daughter of $B$ '
$A$ \& $B$ means ' $A$ is the husband of $B$ '
$A \% B$ means ' $A$ is the wife of $B$ '
If G \% M \# L @ P \& C @ B, then how is L related to B?
Ans $\times 1$. Daughter
2. Granddaughter
3. Sister

X 4. Daughter-in-law
Q. 16 In a certain code language, 'INNER' is written as 'SNNWJ' and 'GLASS' is written as 'UPAII'. How will 'MODEL' be written in that language?

Ans
X 1. OMXVP
2. OMXWP
3. OMWWP
4. OMXWO
Q. 17 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
30: 48:: 60: ? :: 45 : 72
Ans

- 1.96
$\times 2.92$
$\times 3.90$
$\times 4.88$
Q. 18 उस शब्द-युग्म का चयन कीजिए, जो ठीक उसी संबंध का निरूपण करता हो, जो संबंध दिए गए इस शब्द-युग्म में अभिव्यक्त है।
(शब्दों को अर्थपूर्ण शब्दों के रूप में माना जाना चाहिए और उन्हें शब्द के अक्षरों की संख्या/व्यंजनों की संख्या/स्वरों की संख्या के आधार पर परस्पर संबंधित नहीं होना चाहिए)
अधिग्रहित : प्राप्त
Ans
$X$ 1. कड़वा : मीठा

2. एकत्रित : वितरित
3. आगमन : प्रस्थान
4. लघु : छोटा
Q. 19 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X1.13-159
X 2.9-71
* $3.5-31$

X4.17-279
Q. 20 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(8,12,6)$
$(9,18,8)$
Ans $\quad$ ⒈ $(4,12,6)$
2. $(12,24,8)$

X $3 .(7,24,4)$
X 4. $(9,10,11)$
Q. 21 Which of the following interchange of numbers and mathematical signs would make the given equation correct?
$72 \div 8 \times 9-36+20=80$
Ans
$\times 1.20$ and $80, \times$ and +
$\times 2.9$ and $36, \times$ and $\div$
$\times 3.36$ and $72, \div$ and -
4. 8 and $9,+$ and -
Q. 22 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
TQT, ZSB, FUJ, LWR, ?
Ans

1. RYZ
2. RMZ
3. RYA
4. RNZ
Q. 23 Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
No student is a teacher.
All students are children.
Some girls are students.
Conclusions:
I. Some children are not teachers.
II. Some girls are not teachers.
III. No girl is a teacher.

Ans

1. Only conclusions I and II follow
2. All conclusions follow
3. Only conclusions II and III follow
4. Only conclusions I and III follow
Q. 24 Select the option figure that is embedded in the given figure. (Rotation is not allowed).


Ans

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 25 Select the figure from the options that can replace the question mark (?) and complete the given pattern.

| B | L | O | T | L | B | T | O | C | V | 8 | $=$ | V | C | $=$ | 8 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\Delta$ | $\square$ | Z | $\uparrow$ | $\uparrow$ | $\Delta$ | $\square$ | Z | $\Delta$ | $\uparrow$ | Z | $\square$ | $\square$ | $\Delta$ | $\uparrow$ | Z | ? |
| 8 | $=$ | C | V | V | C | $=$ | 8 | B | L | 0 | T | T | O | L | B |  |

Ans

$\times 2$.

$\times 3$.

$\times 4$.z $\uparrow$
C $\quad \vee \quad B \quad L$

Section: General Awareness
Q. 1 How many types of taxes were in the reign of the ruler Alauddin Khalji?

Ans

1. 3
$\times 2.5$
$\times 3.6$
4.2
Q. 2 The bare ground between plants is covered with a layer of organic matter in order to retain soil moisture. This method is called $\qquad$ —.

Ans

1. Mulching
2. Rock dam
3. Shelter belts
4. Contour barriers
Q. 3 In which of the following years was the Fit India Movement launched by Ministry of Youth Affairs and Sports, Gol?
Ans
X 1.2018
5. 2001
6. 2020
7. 2019
Q. 4 Husk of a coconut is made of $\qquad$ tissue.

Ans
X 1. Collenchyma
< 2. Xylem
3. Scherenchyma
4. Parenchyma
Q. 5 Which of the following options is NOT correct about plant cells?

Ans
X 1. Cell wall of a plant cell is made up of cellulose.
2. The plant cells cannot divide by mitosis.

X 3. A plant cell usually contains a large vacuole.
4. Generally, all plant cells contain chloroplast.
Q. 6 The Government of India started DACE scheme in April 2022. This scheme was launched under which of the following ministries?
Ans

1. Ministry of Social Justice and Empowerment
2. Ministry of Corporate Affairs
3. Ministry of Rural Development
4. Ministry of Education
Q. 7 Whose birthday is celebrated as International Day of Non-Violence?

Ans
X 1. Rajendra Prasad
X 2. Subhash Chandra Bose
X 3. Jawaharlal Nehru
4. Mahatma Gandhi
Q. 8 निम्नलिखित में से किस भारतीय स्वतंत्रता सेनानी ने कहा था कि "खुद वो बदलाव बनिए जो आप दुनिया में देखना चाहते हैं"?
Ans
X 1. बिपिन चंद्र पाल
$\times 2$. मोहम्मद अली जिन्ना
X 3. सुरेंद्रनाथ बनर्जी
4. महात्मा गांधी
Q. 9 In which year was Kalidas Samman established?

Ans $\times 1.1978$
2. 1975
3. 1984
4. 1980
Q. 10 Who among the following has won Oscars as well as a Golden Globe award for his contribution to international music?

Ans
X 1. Pt. Jasraj
2. A.R.Rahman
3. Ravi Shankar
4. Zakir Hussain
Q. 11 Asia is separated from Europe by $\qquad$ mountains.
Ans
X 1. Himalayan
2. Andes Mountains
3. Alps
4. Ural
Q. 12 Which of the following states have the highest literacy rate, according to census 2011?

Ans
X 1. Lakshadweep
X 2. Goa
X 3. Mizoram
4. Kerala
Q. 13 The system based on individual leadership is a $\qquad$ system.

Ans
X 1. semi-parliamentary
2. parliamentary
3. presidential
4. semi-presidential
Q. 14 Which of the following rivers is NOT included in the 'Panchnad'?

Ans
$\times 1$. The Beas
2. The Sutlej
3. The Indus
4. The Ravi
Q. 15 The final of the French Open (Roland Garros) Tennis 2021 for men took place on which day?

Ans 1.13 June
2. 30 July
3. 13 July
4. 5 June
Q. 16 Union Minister of Petroleum \& Natural Gas Hardeep Singh Puri inaugurated Asia's largest Compressed Bio Gas (CBG) plant in $\qquad$ _.
Ans
X 1. Gujarat
X 2. Rajasthan
2. Punjab

X 4. Maharashtra
Q. 17 Identify the correct statement with respect to unsaturated hydrocarbons.

Ans $\quad$ 1. Compounds of carbon having a single bond between their carbon atoms are called unsaturated compounds
2. Compounds of carbon having double bonds or triple bonds between their carbon atoms are called unsaturated compounds.3. Compounds of carbon having single bonds between their oxygen atoms are called unsaturated compounds.
4. Compounds of carbon having double or triple bonds between their hydrogen atoms are called unsaturated compounds.
Q. 18 Some important administrative posts were hereditary during the Rashtrakuta and Chola dynasties. The post 'nagara-shreshthi' meant?
Ans
X 1. Leader of the merchant caravans
2. Merchant of the city

X 3. Important minister
X 4. Chief judicial officer
Q. 19 Which of the following is added in the national income to obtain personal income of the households?
Ans $\times 1$. Net interest payments
2. Transfer payments from government and firms
3. Undistributed profits
4. Corporate tax
Q. 20 Who conducted X-ray spectroscopic study of a large number of elements and showed that the frequency of $X$-rays emitted by an element is related to the atomic number, $Z$, rather than the atomic mass?
Ans
X 1. Lothar Meyer
2. Dmitri Mendeleev
3. Henry Moseley
4. Johann Dobereiner
Q. 21 Which Five-Year Plan in India was mainly focussed on Garibi Hatao, creation of employment opportunities and agricultural production amongst other objectives?
Ans

1. Fifth
2. Fourth
3. Third
4. Second
Q. 22 लोकतंत्र के दो सबसे आवश्यक अधिकार कौन-से हैं?

Ans
$\times$ 1. शोषण, निवारक निरोध
2. समानता, स्वतंत्रता
3. स्वतंत्रता, निवारक निरोध
4. समानता, शोषण
Q. 23 In March 2022, the "Stree Manoraksha project" was launched by which of the following Union Minister?

Ans $\quad$ 1. Union Minister for Education
2. Union Minister for Women and Child Development
3. Union Minister for Law and Justice
4. Union Minister for Health and Family Welfare
Q. 24 Jata-Jatin is the folk dance of which Indian state?

Ans
X 1. Manipur
2. Odisha
3. Bihar
4. West Bengal
Q. 25 Mughal ruler, Aurangzeb died in which year?

Ans
$\times 1.1703$
2. 1705
3. 1707
4. 1701

Section : Quantitative Aptitude
Q. 1 In an equilateral triangle $A B C, D$ is the midpoint of side $B C$. If the length of $B C$ is 8 cm , then the height of the triangle is:
Ans

1. 5.5 cm
2. 4.5 cm
$\times$ 3. $6 \sqrt{3} \mathrm{~cm}$
-4. $4 \sqrt{3} \mathrm{~cm}$
Q. 2 A thief steals a bike at 12:30p.m. and drives it at $48 \mathrm{~km} / \mathrm{h}$. But the theft is discovered after half an hour. The bike owner starts to chase him on another bike at $58 \mathrm{~km} / \mathrm{h}$. The thief will be caught at $\qquad$ —.
Ans
X 1.3:40p.m.
X 2. 3:54p.m.
X 3. 3:10p.m.
3. $3: 24$ p.m.
Q. 3 If $\triangle A B C \sim \triangle F D E$ such that $A B=9 \mathrm{~cm}, A C=11 \mathrm{~cm}, D F=16 \mathrm{~cm}$ and $D E=12 \mathrm{~cm}$, then the length of $B C$ is:

Ans
X 1. $5 \frac{3}{4} \mathrm{~cm}$
X2. $4 \frac{3}{5} \mathrm{~cm}$
$\times 3.3 \frac{5}{7} \mathrm{~cm}$
4. $6 \frac{3}{4} \mathrm{~cm}$
Q. 4 The radii of two cylinders are in the ratio 1:4 and their heights are in the ratio $4: 3$. Their volumes will be in the ratio $\qquad$ .

Ans

1. 1: 12

X2.2:9
3. $3: 10$
4. 1:9
Q. 5 If $x+\frac{1}{x}=2 \cos \theta$, then $x^{3}+\frac{1}{x^{3}}=$ ?

Ans
X $1.2 \cos 2 \theta$
X 2. $\cos 3 \theta$

- 3. $2 \cos 3 \theta$

X 4. $\cos 2 \theta$
Q. 6 A and B can do a certain work in 6 hours, and $A, B$ and $C$ together take 4 hours to do the same. How long will it take for $C$ alone to accomplish the task?
Ans

1. 12 hours
2. 4 hours
3. 2 hours
4. 6 hours
Q. 7 The pie chart given below shows the expenditure incurred by a person on 7 articles. The total expenditure of all these 7 articles are 3600 . Expenditure incurred on a particular article is shown in terms of degree with respect to the total expenditure incurred in all these 7 articles.


What is the average expenditure incurred on article $\mathbf{P}$ and $\mathbf{Q}$ ?
Ans
$\times 1.875$
$\times 2.905$
$\times 3.885$

- 4.950
Q. $8 \sin ^{4} \theta+\cos ^{4} \theta$ in terms of $\sin \theta$ can be written as:

Ans
$x$ 1. $2 \sin ^{4} \theta+2 \sin ^{2} \theta-1$
2. $2 \sin ^{4} \theta-2 \sin ^{2} \theta$
3. $2 \sin ^{4} \theta-2 \sin ^{2} \theta-1$
4. $2 \sin ^{4} \theta-2 \sin ^{2} \theta+1$
Q. 9 Three circles of radius 6 cm are kept touching each other. The string is tightly tied around these three circles. What is the length of the string?

Ans

1. $36+12 \mathrm{p} \mathrm{cm}$
2. $36+18 p \mathrm{~cm}$
3. $24+36 p \mathrm{~cm}$
4. $36+20 \mathrm{p} \mathrm{cm}$
Q. 10 If $x=3+2 \sqrt{2}, x>0$, then the value of $\sqrt{x}-\frac{1}{\sqrt{x}}$ is:

Ans

1. 1
2. $\sqrt{2}$
3. 2
4. $2 \sqrt{2}$
Q. 11 Study the given graph and table and answer the following question.

Data of different states regarding population of states in the year 1998


Total population of the given states $=32760000$

| States | Sex and literacy wise Population Ratio |  |  |  |
| :--- | ---: | ---: | :---: | :---: |
|  | Sex |  | Literacy |  |
|  | M | F | Literate | Illiterate |
| Arunachal Pradesh | 5 | 3 | 2 | 7 |
| Madhya Pradesh | 3 | 1 | 1 | 4 |
| Delhi | 2 | 3 | 2 | 1 |
| Goa | 3 | 5 | 3 | 2 |
| Bihar | 3 | 4 | 4 | 1 |
| Uttar Pradesh | 3 | 2 | 7 | 2 |
| Tamil Nadu | 3 | 4 | 9 | 4 |

If in the year 1998, there was an increase of $20 \%$ in the population of Goa and $10 \%$ in the population of Arunachal Pradesh compared to the previous year, then what was the ratio of populations of Goa and Arunachal Pradesh in 1997?

Ans
X1. 7:11
2. $11: 25$
$\times 3.4: 5$
4. $25: 11$
Q. 12 Suman paid ₹ 9,600 in interest on a loan she obtained 5 years ago with a simple interest rate of $16 \%$. What was the amount of the loan she had taken?

Ans
$\times 1$. ₹ 13,250
X2. ₹ 12,500

- 3 ₹ 12,000

X4. ₹ 11,750
Q. $13 \tan (\theta-14 \pi)$ is equal to:

Ans

1. $\tan \theta$
2. $-\cot \theta$
3. $\cot \theta$
x 4. $-\tan \theta$
Q. 14

What will be the remainder when $7^{42}$ is divided by $48 ?$

Ans
$\times 1.2$
2.3
3. 1
4. 0
Q. 15 The following pie chart is represents the units of electricity sold to various categories in a month by an

Electricity Supplier


The central angle of the sector corresponding to supply for Industries is:
Ans
$\times 1.48^{\circ}$
$\times 2.25^{\circ}$
$\times 3.46^{\circ}$
4. $90^{\circ}$
Q. 16 Number $p$ is $15 \%$ more than 150 . If $k$ is $15 \%$ less than $p$, then $k$ is equal to:

Ans
X 1.136 .324
$\times 2.166 .625$
X 3.116 .328
4. 146.625
Q. 17 What is the HCF of 36 and $198 ?$

Ans
$\times 1.36$
$\times 2.22$

- 3.18
$\times 4.9$
Q. 18 The cost of a piece of diamond varies with the square of its weight. A diamond of Rs. 6,084 value is cut into 3 pieces whose weights are in the ratio $3: 2: 1$. Find the loss involved in the cutting.

Ans
X 1. Rs.3,768
2. Rs. 3,718
3. Rs.3,168
4. Rs.3,518
Q. 19 The marked price of an article is ₹10,927. Due festive season, a certain percentage of discount is declared. Raju buys an article at reduced price and sells it at ₹109,27, and makes a profit of $\mathbf{1 1 . 5 \%}$. What was the percentage discount offered?
Ans

1. $10.3 \%$
2. $11.3 \%$

X 3. 11.5\%
×4. 10.9\%
Q. 20 If $\mathrm{X}+\frac{1}{\mathrm{x}}=-2$, then what is the value of $\mathrm{X}^{17}+\mathrm{X}^{-17}+\mathrm{X}^{12}+\mathrm{X}^{-12} \quad ?(\mathrm{x}<0)$

Ans $\quad \times 1 .-2$
X 2. -1
$\times 3.1$

- 4.0
Q. 21 Find the mean proportion between $(6+\sqrt{8})$ and $(3-\sqrt{2})$.

Ans
X1. $2 \sqrt{12}$
2. $\sqrt{14}$

X 3. $(6-\sqrt{8})$
x4. $\sqrt{15}-7$
Q. 22 If $x-y=1$ and $x^{2}+y^{2}=41$ where $x, y \geq 0$, then the value of $x+y$ will be:

Ans
1.9
$\times 2.8$
$\times 3.6$
$\times 4.7$
Q. $23 \Delta \mathrm{XYZ} \sim \Delta \mathrm{GST}$ and $\mathrm{XY}: \mathrm{GS}=2: 3, \mathrm{XV}$ is the median to the side YZ , and GD is the median to the side ST . The value of $\left(\frac{\mathrm{YV}}{\mathrm{SD}}\right)^{2}$ is $\qquad$ -

Ans

1. $\frac{4}{9}$
2. $\frac{3}{5}$
3. $\frac{1}{4}$
4. $\frac{2}{3}$
Q. 24 Vikas covered a certain distance by bike. If he covers $40 \%$ of the distance at $40 \mathrm{~km} / \mathrm{h}$, $50 \%$ of the distance at $25 \mathrm{~km} / \mathrm{h}$ and the remaining $10 \%$ distance at $10 \mathrm{~km} / \mathrm{h}$. Find his average speed over the whole distance.
Ans
5. $25 \mathrm{~km} / \mathrm{h}$
6. $28 \mathrm{~km} / \mathrm{h}$
7. $26 \mathrm{~km} / \mathrm{h}$
8. $30 \mathrm{~km} / \mathrm{h}$
Q. 25 The table given below shows the production of refrigerator by 6 companies.

| Companies | Production |
| :---: | :---: |
| E | 300 |
| F | 270 |
| G | 260 |
| H | 240 |
| I | 220 |
| J | 250 |

What is the ratio of production of refrigerator by company $G$ to the production of refrigerator by company $I$ ?
Ans
X 1.12:13
X 2. 11:13

- $3.13: 11$

X4.13:12

## Section : English Comprehension

Q. 1 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Oscar is the most prestigious award which is introduced to good actors in that year.
Ans
X 1. rewarded to good
X 2. nominated to fine
3. awarded to best
4. attached to fine
Q. 2 Select the most appropriate option that can substitute the underlined segment in the given sentence.
When I reached home late, I found my children waiting on me.
Ans
X 1. waiting with me
X 2. waiting by me
X 3. waiting about me
4. waiting for me
Q. 3 Select the most appropriate option to fill in the blank.

Our school had decided to take us to the Himalayas for excursion. I $\qquad$ to convince my mother to give consent.
Ans

1. fought fire with fire
2. brought home the bacon
3. made waves
4. left no stones unturned
Q. 4 Identify the INCORRECTLY spelt word in the given sentence.

The rhime and rhythm of Papai's poems are highly symbolical and timely.
Ans

1. Rhime
2. Timely
3. Rhythm
4. Symbolical
Q. 5 Select the INCORRECTLY spelt word.

Ans
X 1. Justice
2. Judege
3. Attorney
4. Lawyer
Q. 6 Select the sentence with the appropriate use of adverb of frequency.

Ans

1. Radha goes to Nagpur with great affection.
2. Radha goes to Nagpur for her office work.
3. Radha often goes to Nagpur.

X 4. Radha goes to Nagpur to meet her uncle.
Q. 7 Select the most appropriate synonym of the given word.

Obligatory
Ans
X 1. Unnecessary
2. Compulsory

X 3. Chosen
4. Optional
Q. 8 Select the most appropriate ANTONYM of the underlined word.

Built by King Narasimhadeva I of the Eastern Ganga dynasty from 1238-1250 CE, the $13^{\text {th }}$ century late-style Kalingan temple forms part of the golden triangle of Odisha, along with Puri and Bhubaneswar, and attracts tourists, pilgrims, and history and art lovers.

Ans
X 1. Embodies
X 2. Shrouds
X 3. Elucidates
4. Deters
Q. 9 Select the option that contains a grammatical error in the underlined portion.

There are three cupholders placed on the cupboards of the secretariat table.
Ans
X 1. There are three cupholders placed on the cupboards of the secretariat table.
2. There are three cupholders placed on the cupboards of the secretariat table.

X 3. There are three cupholders placed on the cupboards of the secretariat table.
X 4. There are three cupholders placed on the cupboards of the secretariat table.
Q. 10 Select the most appropriate option to fill in the blank.

Anita is an employee who has unconditional $\qquad$ for her company.
Ans
X 1. support
$X$ 2. dedication
X 3. attachment
4. love
Q. 11 Rearrange the parts of the sentence in correct order.

The spectacular
P. Indian economy, were largely based on coal
Q. expansion of electrification of the
R. the last 20 years, and the considerable
S. Chinese economic growth of

Ans

1. QRPS
2. SQRP
3. PRQS
4. SRQP

## Q. 12 Select the correct direct form of the given sentence.

The surgeon says that I should get anaesthesia for the surgery.
Ans

1. The surgeon says, "You should get anaesthesia for the surgery."
2. The surgeon says, "I should get anaesthesia for the surgery."
3. The surgeon said, "You should get anaesthesia for the surgery."
4. The surgeon says, "You could get anaesthesia for the surgery."
Q. 13 Select the correct active form of the given sentence.

Why is peace being demanded by you?
Ans
X 1. Why you are demanding peace?
2. Why are peace demanded?
3. Why are you demanding peace?

X 4. Why you demand peace?
Q. 14 Select the most appropriate ANTONYM of the underlined word.

The WHO issued a statement on Sunday morning that though the Omicron variant of coronavirus may appear to be less severe, it should not be dismissed as 'mild'.

Ans
X 1. Withered
2. Sick
3. Gentle
4. Voracious
Q. 15 Select the correct passive form of the given sentence.

They fired her because she was careless.
Ans $\times 1$. She is being fired by them because she was careless.
2. She is fired by them because she was careless.

X 3. She had been fired by them because she was careless.
4. She was fired by them because she was careless.
Q. 16 Select the most appropriate option to fill in the blank.

He has experienced $\qquad$ abuse.
Ans
X 1. palpable
2. visible
3. physical
4. intangible
Q. 17 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P. You can use proper lighting, reduce screen glare, and take more breaks.
Q. However, one of the easiest habits to build is to follow the "20-20-20 rule".
$R$. There are lots of ways you can protect your eyes during the day.
S. Every 20 minutes of time spent staring at a screen, look away at an option that is at least 20 feet away for 20 seconds.
Ans

1. SQPR
2. QRSP
3. RPQS
4. SPRQ
Q. 18 Select the most appropriate meaning of the underlined idiom in the given sentence.

Being an ardent professional, the lawyer always kept his clients at an arm's length.
Ans
< 1. Away from each other
2. At a distance
3. Under wraps
4. Alert and prepared
Q. 19 Select the most appropriate synonym of the underlined word in the given sentence.

Rahul was sharing some of his childhood stories and they were hysterical.
Ans
X 1. Emotional
2. Dangerous
3. Funny
4. Scary
Q. 20 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Not only is my brother intelligent though hard working too.
Ans
$\times 1$. or hard working
2. but hard working
3. so hard working
4. yet hard working

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Everything we know about non-avian dinosaurs is $\qquad$ (1) fossils, which include bones, teeth, footprints, tracks, eggs, and skin impressions. For centuries, people throughout the world have $\qquad$ (2) amazing fossilized bones and footprints. Early finds inspired
$\qquad$ (3) and fairy tales, and people $\qquad$ (4) that these bones belonged to
$\qquad$ (5) or huge monsters.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. taken after
$X$ 2. held on
$X$ 3. given in
4. based on

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Everything we know about non-avian dinosaurs is $\qquad$ (1) fossils, which include bones, teeth, footprints, tracks, eggs, and skin impressions. For centuries, people throughout the world have $\qquad$ (2) amazing fossilized bones and footprints. Early finds inspired
$\qquad$ (3) and fairy tales, and people $\qquad$ (4) that these bones belonged to
(5) or huge monsters.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. designed
X 2. invented
X 3. fabricated
4. discovered

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Everything we know about non-avian dinosaurs is $\qquad$ (1) fossils, which include bones, teeth, footprints, tracks, eggs, and skin impressions. For centuries, people throughout the world have $\qquad$ (2) amazing fossilized bones and footprints. Early finds inspired
$\qquad$ (3) and fairy tales, and people $\qquad$ (4) that these bones belonged to
(5) or huge monsters.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
$\times 1$ 1.fame
X 2. celebrities
3. legends

X4. honour

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Everything we know about non-avian dinosaurs is $\qquad$ (1) fossils, which include bones, teeth, footprints, tracks, eggs, and skin impressions. For centuries, people throughout the world have $\qquad$ (2) amazing fossilized bones and footprints. Early finds inspired
$\qquad$ (3) and fairy tales, and people $\qquad$ (4) that these bones belonged to
$\qquad$ (5) or huge monsters.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $\times 1$. aimed
X 2. opposed
X 3. arranged
4. imagined

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Everything we know about non-avian dinosaurs is $\qquad$ (1) fossils, which include bones, teeth, footprints, tracks, eggs, and skin impressions. For centuries, people throughout the world have $\qquad$ (2) amazing fossilized bones and footprints. Early finds inspired
$\qquad$ (3) and fairy tales, and people $\qquad$ (4) that these bones belonged to
(5) or huge monsters.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. spirits
X 2. devils
$\times 3$. ghosts
4. giants

Combined Graduate Level Examination Tier I 2022

| Roll Number | Www.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | TCS Gito Bitan |
| Exam Date | 05/12/2022 |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans

1. $(6-60-1200)$
2. $(7-70-1600)$
3. $(5-50-1000)$
4. $(4-40-800)$
Q. 2 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
CAST : DCVX :: BUSH : CWVL :: ARMY : ?
Ans
X 1. PTCB
X 2. CTBP
X 3. TBPC
5. BTPC
Q. 3 A \# B means ' $A$ is the brother of $B$ '
$A @ B$ means ' $A$ is the son of $B$ '
$A \& B$ means ' $A$ is the wife of $B$ '
$A \% B$ means ' $A$ is the mother of $B$ '
If X @ Y \& Z \# U \& W @ V , then how is U related to V ?
Ans
X1. Sister
6. Daughter-in-law

X 3. Daughter
4. Wife
Q. 4 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1.AMRW
2. XFIK
3.PBGL
4. KWBG
Q. 5 By Interchanging the given two numbers which of the following equation will be not correct?
3 and 4
Ans
X1.3+5 $\times 4-6 \div 2=16$

- $2.4 \times 6-3+9 \div 1=25$

X $3.3 \times 7-8 \div 2+4=27$
X4. $9 \times 3 \div 6+4-8=1$
Q. 6 In a certain code language, 'complete the drawing' is coded as ' 837 ', 'do not leave early' is coded as '2355' and 'we need break' is coded as '245'. How will 'kindly stand straight' be coded in that language?
Ans
X 1.856
2. 658
3. 456
4. 769
Q. 7 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
11: 91 :: ? : 154 :: 15 : 127
Ans

1. 16
2. 18
3. 14
4. 24
Q. 8 By interchanging the given two signs and numbers which of the following equation will be correct?

+ and -, 7 and 3
Ans
X1.7+3×9-8 $\div 2=30$

2. $9 \times 7+3-4 \div 2=18$
3. $3 \times 4 \div 2+7-5=16$
$4.3+7 \div 1-4 \times 2=16$
Q. 9 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
4. Humility
5. Humbug
6. Humanoid
7. Humidity
8. Humoresque
9. Humanity
10. Humectants

Ans

1. $6,3,2,7,4,1,5$
2. $6,3,2,7,1,4,5$
3. $6,3,7,2,1,4,5$

X4.6,3, 7, 2, 4, 1, 5
Q. 10 In a certain code language, 'DAISY' is written as 'FCIQW' and 'ROSES' is written as 'TQSCQ'. How will 'LOTUS' be written in that language?
Ans
X 1. NQSTQ
2. NQTSQ

X 3. NPTSP
4. NQTSP
Q. 11 Which two signs should be interchanged to make the given equation correct?
$(50 \div 3) * 15+25-10=25$
Ans
<1. $\div$ and -
2. + and *
3. $\div$ and *
4. + and -
Q. 12 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(23,161,207)$
$(47,329,423)$
Ans

1. $(64,448,576)$
2. $(84,442,570)$
3. $(29,112,782)$
4. $(33,97,297)$
Q. 13 Which of the following numbers will replace the question mark (?) in the given series? 1, 3, 6, 18, 36, 108, ?

Ans

1. 196
2. 224
3. 236
4. 216
Q. 14 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:

- Some violins are pianos.
- All violins are flutes.
- No violin is a guitar.

Conclusions:
I. No guitar is a piano.
II. Some flutes are pianos
III. All flutes are guitars.

Ans $\times 1$. Only conclusion I and III follow
2. Only conclusion I follows
3. Only conclusion II follows
4. Only conclusion I and II follow
Q. 15 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).
"


Ans
$\times 1$

$\times 2$.


- 3. 


$\times 4$

Q. 16 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.
dyk53m|
Ans

1. $m \in ट \lambda \gamma b$
$\times$ 2. $m \in ट k$ y $p$
$x$ 3. $m \in ट \geqslant y b$
$\times 4 . m \in S \geqslant \wedge p$
Q. 17 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
18:234 :: ? : 176 :: 14 : 126
Ans
$\times 1.14$
$\times 2.15$
$\times 3.20$
2. 16
Q. 18 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 3$.

$\checkmark 4$.

Q. 19 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans
$\times 1$

$\times 2$


- 3. 


$\times 4$.

Q. 20 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the
word.)
Lens : Camera :: Cartridge : ?
Ans

- 1. Printer

X 2. Ink
X 3. Paper
X 4. Computer
Q. 21 Three different positions of the same dice are shown (figures 1 to 3). Find the number on the face opposite to the face having ' 3 '.

figure 1

figure 2

figure 3

Ans
$\times 1.1$

- 2.2
$\times 3.5$
$\times 4.6$
Q. 22 Which letter cluster will replace the question mark (?) to complete the given series? BLJS, FOLT, ?, NUPV, RXRW
Ans
X 1. KRMU

2. JRNU

X 3. KRNU
4. JRMU
Q. 23 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some second are time.
II. All time are minute.

Conclusion:
I. No minute is time.
II. No time is second.
III. No second is minute.

Ans $\times 1$. Only conclusion I follows
2. All conclusion follows
3. Neither conclusion follows
4. Both conclusions I and II follows
Q. 24 If $A \times B$ means that $A$ is the father of $B, A+B$ means that $A$ is the mother of $B, A-B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the brother of $P$ ?
Ans
X1. $P+Q-R$
X2. $P-Q+R$
X 3. $\mathrm{P} \times \mathrm{R}-\mathrm{Q}$
4. $P-Q \times R$
Q.25 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
CABQ, CEJC, CIRO, CMZA, ?
Ans
X 1. CQIM
X 2. CMNP
3. CQHM

X 4. CMRT

Section: General Awareness
Q. 1 Where was the FIH Men's Indoor Hockey World Cup 2018 organised?

Ans

1. Berlin, Germany
2. Poznan, Poland
3. Vienna, Austria
4. Leipzig, Germany
Q. 2 How many fundamental duties are provided in the Indian Constitution?

Ans

1. 11
$\times 2.12$
$\times 3.14$
$\times 4.17$
Q. 3 In the context of India, tropical cyclones originate over the $\qquad$ -.
Ans
X 1. Arabian Sea
2. Pacific Ocean
3. Bay of Bengal
4. Mediterranean Sea
Q. 4 Which of the following UT/states have the highest density/km ${ }^{2}$, according to census 2011?

Ans $\times 1$. Pondicherry
2. Chandigarh
3. Uttar Pradesh
4. Bihar
Q. 5 Which college was established in Banaras in 1791?

Ans
X 1. Dayanand College
X 2. Shivaji College
3. Hindu College

X 4. Sanskrit College
Q. 6 Which country is the leading producer of rice?

Ans

1. China
2. Japan
3. India
4. Egypt
Q. 7 Who has been appointed as new director of AllMS, New Delhi in September 2022?

Ans
X 1. Raj Subramaniam
2. M. Srinivas
3. Krishnan Ramanujam
4. Nitin Chugh
Q. 8 The Winter Olympics - 2026 will be hosted by $\qquad$ -
Ans
X 1. Russia
X 2. Canada
3. Italy
< 4. France
Q. 9 Whom among the following Indian classical musicians is an auditorium in Teheran, Iran named after?

Ans

1. Ustad Bismillah Khan
2. Ustad Sultan Khan
3. Ustad Zakir Hussain
4. Ustad Vilayat Khan
Q. 10 Which type of rock can be considered as a biological sedimentary rock?

Ans
X1. Bauxite
X 2. Marble
3. Granite
4. Limestone
Q. 11 Who discovered three chemical elements: cerium, thorium and selenium, and devised the modern method by which one or two letters are used to symbolise elements?

Ans

1. Hennig Brand
2. Niels Bohr
3. Jacob Berzelius
4. John Dalton
Q. 12 With respect to India's foreign trade, which year is referred to as the year of divide?

Ans
X 1.2010
2. 1991
$\times 3.1981$
X4. 1996
Q. 13 The elections to the Panchayati Raj institutions are conducted by the $\qquad$ .
Ans
X 1. Central election commission
X 2. State government
3. State election commission

X 4. Central government
Q. 14 Money multiplier can be expressed as $\qquad$ _.
Ans $\quad$ 1. Statutory liquidity ratio / Cash Reserve Ratio
X 2. 1/ Statutory liquidity ratio
X 3. Cash reserve ratio - Statutory liquidity ratio
4. 1/ Cash Reserve Ratio
Q. 15 Who among the following is supposed to compile both the Puranas and the Mahabharata?

Ans
X 1. Sage Vasishtha
X 2. Sage Bharadwaja
3. Sage Vyasa

X 4. Sage Valmiki
Q. 16 Sultan Mahmud came to India from which of the following city of Afghanistan?

Ans

1. Ghazni

X 2. Jalalabad
X 3. Kabul
X 4. Kandahar
Q. 17 In which year did Langmuir reform the Lewis concept by abandoning the idea of a stable cubical arrangement of the octet and introducing the term 'covalent bond'?
Ans

1. 1919
2. 1915
3. 1921
4. 1917
Q. 18 Jagoi and cholom are the two main divisions in which Classical dance?

Ans
X 1. Bharatanatyam
2. Odissi
3. Manipuri

X 4. Mohiniyattam
Q. 19 Guru Kelucharan Mohapatra, who was awarded the Padma Vibhushan in 2000, was an exponent of which of the following classical dances of India?
Ans

1. Kathakali
2. Odissi
3. Kathak
4. Mohiniyattam
Q. 20 How much purse money was given to a recipient of the Akademi Award in 2019?

Ans

1. ₹1 lakh
2. ₹4 lakh
3. ₹2 lakh
4. ₹3 lakh
Q. 21 Who has been appointed as a brand ambassador of Punyakoti Dattu Yojana?

Ans
X 1. Rana Daggubati
2. Kichcha Sudeep
3. Mahesh Babu
4. Sonu Sood
Q. 22 The second volume of the Akbar Nama recorded the $\qquad$ -
Ans
X 1. Akbar's ancestors
2. Akbar's administration
3. Events of Akbar's reign
4. Akbar's battles
Q. 23 Which of the following is a local wind?

Ans

1. Loo
2. Westerlies
3. Monsoon
4. Easterlies
Q. 24 Match Column-A with Column-B

| Column-A (Organelle) | Column-B (Function) |
| :--- | :--- |
| i. Mitochondria | a. Protein synthesis |
| ii. Ribosomes | b. Regulation of activity of a cell |
| iii. Nucleus | c. Digestive system of a cell |
| iv. Lysosomes | d. Energy generation |

Ans
X 1. i-c, ii-a, iii-d, iv-c
X 2. i-b, ii-a, iii-c, iv-d
X 3. i-a, ii-b, iii-c, iv-d
4. i-d, ii-a, iii-b, iv-c
Q. 25 Which state government has launched the novel 'Chief Minister's Breakfast Scheme' in September 2022?

Ans
X 1. Andhra Pradesh
2. Tamil Nadu
3. Kerala
4. Himachal Pradesh

Section : Quantitative Aptitude
Q. $1 \quad$ Simplify the following. $25^{3}-75^{3}+50^{3}$

Ans

- 1. -281250

X 2.281350
X 3.271250
X 4. -281450
Q. 2 Find the greatest 5-digit number which is divisible by 11, 33, 99 and 121.

Ans $\times 1.90099$
2. 99990
3. 99099
4. 90909
Q. 3 If $\tan A=\frac{2}{3}$, then what is the value of the following?

$$
\left(5 \sin ^{2} \mathrm{~A}-2 \cos ^{2} \mathrm{~A}\right) \div\left(15 \sin ^{2} \mathrm{~A}+3 \cos ^{2} \mathrm{~A}\right)
$$

Ans
X $1 . \frac{21}{47}$
2. $\frac{2}{87}$
$\times 3 . \frac{2}{5}$
4. $\frac{3}{77}$
Q. 4 The given bar graph shows the data of production of pulses (in lakh tonnes) by three different countries $\mathrm{X}, \mathrm{Y}$ and Z over the years. Study the bar graph and answer the question that follows.


For which country is the average production (in lakh tonnes) for five years the maximum?

Ans
$x$ 1. X
2. $Z$
$X{ }^{3}, Y^{\prime}$
$X$ 4. $Y$ and $Z$ both
Q. 5 The fourth proportion to 12,24 and 27 is the same as the third proportion to $A$ and 36. What is the value of $A$ ?
Ans
$\times 1.22$
2. 24
3. 26
4. 20
Q. 6 If $\theta$ is an acute angle and $\tan \theta+\cot \theta=2$, then the value of $\tan ^{2} \theta+\cot ^{2} \theta+2 \tan ^{5} \theta \cot ^{4}$ $\theta$ is:
Ans

1. 3
2. 4
$\times 3.1$
4.2
Q. 7 A shopkeeper offers three types of discount schemes for buyers. Which of them has the maximum discount percentage?
I. Two successive discounts of $10 \%$ each.
II. Successive discounts of $15 \%$ and $5 \%$.
III. 20\% discount.

Ans
X 1 . Only discount scheme I
2. Only discount scheme II
3. Only discount scheme III
4. All provide equal discount
Q. 8 The lengths (in cm ) of three sides of a triangle are, respectively, 48, 55 and 73 . What is the length (in cm ) of the median joining the mid-point of the longest side to its opposite vertex?
Ans
X 1.27 .5
$\times 2.73$
$\times 3.24$
4. 36.5
Q. 9 What is the smallest number that should be added to 4567 so that the sum is divisible by 7 ?
Ans $\times 1.7$
$\times 2.5$
$\times 3.6$

- 4.4
Q. 10 A businessman cheats by using faulty weights, to the tune of $12 \%$ each time, when buying and selling material. What is the rise in his profit percentage using faulty weights only?
Ans
X 1.22\%

2. $25.44 \%$

X $3.24 \%$
4. $26.32 \%$
Q. 11 Study the given table (income in dollars) and answer the question that follows.

| Source of Income | Adam | Brad | Christy | David |
| :---: | :---: | :---: | :---: | :---: |
| Salary | 350 | 200 | 460 | 500 |
| Bonus | 90 | 40 | 115 | 130 |
| Overtime | 160 | 65 | 170 | 185 |
| Arrears | 200 | 125 | 145 | 235 |
| Total | 800 | 430 | 890 | 1050 |

The income from bonus is how much per cent of the income from arrears in the case of Adam?
Ans
X $1.80 \%$
X 2. 40\%
X $3.90 \%$
-4.45\%
Q. 12 The following pie chart represents the total expenditure of $₹ 12,00,000$ on several items in construction of a house in a village.


The percentage of the total expenditures spent on Cement, Wood and Plastic (correct to 2 decimal places) is:
Ans
X 1. $18.65 \%$
X2. $25.25 \%$
$\times$ з. $30.25 \%$
, 4. $42.22 \%$
Q. 13 Select the correct algebraic expression.

Ans

1. $a b-a-b+1=(a-1)(b-1)$

X 2. $a b+a-b+1=(1-a)(1-b)(1-a)(1+b)$
X 3. $a b-a-b+1=(1-a)(b-1)$
X4. $a b-a-b+1=(a-1)(1-b)$
Q. 14 What is the value of
$100^{2}-99^{2}+98^{2}-97^{2}+96^{2}-95^{2}+94^{2}-93^{2}+\ldots \ldots .12^{2}-11^{2}$
?
Ans

1. 5050
< 2.4985
2. 4995
3. 4950
Q. 15 Mr . X has a monthly income of $\$ 26,500$ and his monthly expenditure is $\$ 20,500$. The next year, his salary is increased by $12 \%$ and expenditure is increased by $6 \%$. His savings increase by how much percent?
Ans
4. $32.5 \%$

X 2. 27.3\%
X 3.32.0\%
4. $34.7 \%$
Q. 16 The given table shows the number of new employees who joined in different categories of employees in an
organisation and also the number of employees from these categories who left the organisation every year since
the foundation of the organisation in 2015. Study the table and answer the questions that follow.

| Year | Business Analysts |  | Accountants |  | Sales Representatives |  | Peons |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Joined | Left | Joined | Left | Joined | Left | Joined | Left |
| 2015 | 80 | 0 | 35 | 0 | 50 | 0 | 73 | 0 |
| 2016 | 63 | 21 | 26 | 16 | 46 | 20 | 34 | 23 |
| 2017 | 78 | 28 | 15 | 5 | 38 | 15 | 48 | 29 |
| 2018 | 42 | 39 | 20 | 38 | 34 | 0 | 14 | 12 |
| 2019 | 67 | 44 | 14 | 24 | 22 | 30 | 21 | 30 |

What was the total number of accountants working in the organisation in the year 2019?
Ans

- 1.27
$\times 2.193$
$\times 3.110$
4.83
Q. 17 The perimeter of a triangle with sides of integer values is equal to 13 . How many such triangles are possible?

Ans
1.5
2.8
$\times 3.7$
$\times 4.6$
Q. 18 A sum of money invested at simple interest becomes $17 / 10$ of itself in 2 years and 6 months. What is the rate of interest per annum?
Ans
X 1.22 percent
X 2. 16 percent
2. 28 percent

X4.34 percent
Q. 19 A hollow sphere has an outer radius of 4 cm and inner radius of 1 cm . What is the volume of this hollow sphere?
Ans

- $1.84 \mathrm{p} \mathrm{cm}^{3}$
$\times 2.68 \mathrm{p} \mathrm{cm}^{3}$
(3.48p cm ${ }^{3}$
$4.92 \mathrm{pm}^{3}$
Q.20 A person travels from $P$ to $Q$ at a speed of $50 \mathrm{~km} / \mathrm{h}$ and returns by increasing his speed by $60 \%$. What is his average speed for both the trips?
Ans
X $1.35 .61 \mathrm{~km} / \mathrm{h}$

2. $61.53 \mathrm{~km} / \mathrm{h}$

X $3.31 .56 \mathrm{~km} / \mathrm{h}$
X $4.16 .53 \mathrm{~km} / \mathrm{h}$
Q. 21 Which of the following is NOT a correct statement?

Ans
1 1. The speed of $20 \mathrm{~m} / \mathrm{s}$ is less than the speed of $85 \mathrm{~km} / \mathrm{h}$.
X 2. Time may be calculated by dividing the distance by the speed.
X 3. Covering the same distance in lesser time implies a higher speed.
4. The speed of $99 \mathrm{~km} / \mathrm{h}$ is less than the speed of $24 \mathrm{~m} / \mathrm{s}$.
Q. 22 In a $\triangle A B C$, the internal bisectors of the angle $B$ and the angle $C$ intersect at an angle of $105^{\circ}$. What is the value of the angle $A$ ?

Ans

1. $52.5^{\circ}$
2. $75^{\circ}$
3. $15^{\circ}$
4. $30^{\circ}$
Q. $23 \cot ^{2} \mathrm{~A}-\cos ^{2} \mathrm{~A}$ is equal to:

Ans

1. $\cos ^{2} A \cdot \sin ^{2} A$
2. $\cos ^{2} \mathrm{~A} \cdot \cot ^{2} \mathrm{~A}$
3. 1
4. 0
Q. 24 The volume of the hemisphere is $19,404 \mathrm{~cm}^{3}$. The radius of the hemisphere is $\qquad$ .
Ans $\times 1.14 \mathrm{~cm}$
5. 19 cm
3.21 cm
4.17 cm
Q. 2540 men can complete a work in 15 days. Three days after they started working, 20 more men joined them. In how many days the total work will be completed?
Ans
X 1.12
6. 13
7. 11
8. 10

Section: English Comprehension
Q. 1 Select the sentence with the appropriate use of preposition.

Ans

1. They rise with the morning lark and labour till almost dark.
2. They rise with the morning lark and labour utmost almost dark.
3. They rise with the morning lark and labour by almost dark.
4. They rise with the morning lark and labour still almost dark.
Q. 2 Select the most appropriate idiom that can substitute the italicised words in the given sentence.

He was sacked from his job because of a grave error on his part.
Ans
$\times 1$. raining cats and dogs
2. minding one's p's and q's
3. picking holes in one's cot
4. Himalayan blunder
Q. 3 Select the most appropriate collocation to substitute the underlined word in the given sentence.

The banker warned me not to be careless from my ATM card.
Ans
X 1. careless beside
2. careless with
3. careless across
4. careless on
Q. 4 Select the most appropriate ANTONYM of the underlined word.

Beowulf was praised for his valour displayed in the battlefield.
Ans
X 1. Forbearance
X 2. Erudition
3. Cowardice
4. Idiosyncrasy
Q. 5 Select the most appropriate idiom that can substitute the italicised words in the given sentence.

I have been a vegetarian for a very long time.
Ans 1.donkey's years
2. duck in the thunderstorm
3. die in harness
4. Damocles' sword
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

A very expensive and elaborately built tomb
Ans

1. Mausoleum
2. Cemetery
3. Mosque
4. Masterpiece
Q. 7 Select the most appropriate option that can substitute the underlined segment in the given sentence.
Every nook and corner of the house were unclean.
Ans
X 1. of a house was unclean
5. by the house were unclean
6. to the house were unclean
7. of the house was unclean
Q. 8 Select the correct direct form of the given sentence.

John said that he was there to resolve that fight for them.
Ans
X 1. John says, "I am here to resolve this fight for you."
2. John said to me, "You are here to resolve this fight for you."
3. John said, "I am here to resolve this fight for you."
4. John said, "I was here to resolve this fight for you."
Q. 9 Select the most appropriate synonym of the given word.

Tyranny
Ans

1. Autocracy
2. Compassion
3. Social
4. Discordance
Q. 10 Select the most appropriate option to substitute the underlined segment in the given sentence.

Rearing of silk worms is called horticulture.
Ans
X 1. pisciculture
2. agriculture
3. sericulture
4. apiculture
Q. 11 Select the correct active form of the given sentence.

The memorial event is expected to be attended by thousands of people.
Ans $\times 1$. Thousands of people was expected to attend the memorial event.
X 2. Thousands of people are expected to attending the memorial event.
X 3. Thousands of people had expected to attending the memorial event.
4. Thousands of people are expected to attend the memorial event.
Q. 12 Select the INCORRECTLY spelt word in the following sentence. Tyrany must be dead to attain harmony, tranquillity, and serenity.
Ans
X 1. tranquillity
2. tyrany
3. serenity
4. harmony
Q. 13 Select the INCORRECTLY spelt word.

Ans

1. Movement
2. Kecthup

X 3. Precise
4. Flashy
Q. 14 Select the most appropriate phrasal verb to fill in the blank.

The company's profits were low and they were forced to $\qquad$ staff.
Ans
X 1. lisp off
2. lay off

X 3. lay on
X4. lie on
Q. 15 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

After seeing that Shreya / was in trouble, / Rahul quietly stepped up to help.
Ans
X 1. Rahul quietly stepped up to help
2. After seeing that Shreya
3. was in trouble
4. No error
Q. 16 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Santa Claus stays at the North Pole when he isn't out deliver gifts for Christmas.
Ans
$\times 1$. out to delivering
2. out delivering
3. No substitution
4. out of deliver
Q. 17 Select the most appropriate ANTONYM of the given word.

Guilty
Ans
X 1. Remnant
2. Innocent

X 3. Nonchalant
X 4. Omnipotent
Q. 18 Select the option that is similar in meaning to the underlined word.

The president's concern for the homeless people was superficial and ended as soon as the media left the event.
Ans

1. Shallow
2. Derogatory
3. Regardless
4. Insubstantial
Q. 19 Select the option that can be used as a one-word substitute for the given group of words.

A place where coins and medals are made.
Ans
$\times 1$. Office
2. Mint

X 3. Mine
4. Barn
Q. 20 Select the correct passive voice form for the given sentence.

My brother likes football.
Ans $\quad$ 1. Football was liked by my brother.
$\times 2$. Football is like by my brother.
X 3. Football was like by my brother.
4. Football is liked by my brother.

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The monastery in Tawang has recently undergone (1) $\qquad$ and bright paintings
(2) $\qquad$ it walls. Dances and ceremonial celebrations are held in the (3) $\qquad$ , the
most important of which is held on the night of Buddha Purnima, the full moon on which the Buddha was born, (4) $\qquad$ enlightenment and died. To reach Tawang, you drive for 12
hours from Assam's Tezpur town, a major Indian Forces base. The best seasons the visitor
can choose for coming to Tawang is (5) $\qquad$ September to November.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans $\times 1$.innovation
2. depreciation
3. termination
4. renovation

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The monastery in Tawang has recently undergone (1) $\qquad$ and bright paintings
(2) $\qquad$ it walls. Dances and ceremonial celebrations are held in the (3) $\qquad$ , the most important of which is held on the night of Buddha Purnima, the full moon on which the Buddha was born, (4) $\qquad$ enlightenment and died. To reach Tawang, you drive for 12 hours from Assam's Tezpur town, a major Indian Forces base. The best seasons the visitor can choose for coming to Tawang is (5) $\qquad$ September to November.

SubQuestion No: 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. expose
X 2. rectify
$X$ 3. adore
4. adorn

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The monastery in Tawang has recently undergone (1) $\qquad$ and bright paintings
(2) $\qquad$ it walls. Dances and ceremonial celebrations are held in the (3) $\qquad$ , the most important of which is held on the night of Buddha Purnima, the full moon on which the Buddha was born, (4) $\qquad$ enlightenment and died. To reach Tawang, you drive for 12
hours from Assam's Tezpur town, a major Indian Forces base. The best seasons the visitor
can choose for coming to Tawang is (5) $\qquad$ September to November.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. courtyard

X 2. churchyard
X 3. shipyard
4. junkyard

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The monastery in Tawang has recently undergone (1) $\qquad$ and bright paintings
(2) $\qquad$ it walls. Dances and ceremonial celebrations are held in the (3) $\qquad$ , the most important of which is held on the night of Buddha Purnima, the full moon on which the Buddha was born, (4) $\qquad$ enlightenment and died. To reach Tawang, you drive for 12 hours from Assam's Tezpur town, a major Indian Forces base. The best seasons the visitor can choose for coming to Tawang is (5) $\qquad$ September to November.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans

1. attained
2. displayed
3. transferred
4. received

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The monastery in Tawang has recently undergone (1) and bright paintings
(2) it walls. Dances and ceremonial celebrations are held in the (3) $\qquad$ , the most important of which is held on the night of Buddha Purnima, the full moon on which the Buddha was born, (4) $\qquad$ enlightenment and died. To reach Tawang, you drive for 12 hours from Assam's Tezpur town, a major Indian Forces base. The best seasons the visitor can choose for coming to Tawang is (5) $\qquad$ September to November.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. about
X 2. beside
3. between

X4. among

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Tatisilwai |
| Exam Date | 05/12/2022 |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
$x$ and $\div, 7$ and 9
I. $8 \times 3 \div 6+9-7$
II. $9-7 \times 1+6 \div 3$

Ans $\times 1.0,8$
2. 14,16
3. 6, 9
4. 10, 11
Q. 2 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X1.12-145
2. $16-257$
3. 14 - 193
4. 10-101
Q. 3 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
QML, PRC, OWT, NBK, ?
Ans
X 1. GMR
2. MGB

X 3. MBG
4. GQR
Q. 4 By interchanging the given two signs which of the following equation will be correct? $x$ and +
Ans $\quad \times 1.7 \times 8 \div 9+18-11=16$
X2. $24-8-5 \times 5+3=14$
X $3.5 \times 10-15+20 \div 25=8$
2. $24 \times 8+6 \div 3-18=22$
Q. 5 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

w
$\times 4$.

Q. 6 After arranging the given words according to dictionary order, which word will come at 'Third' position?

1. Theory
2. Theorem
3. Theology
4. Theologue
5. Theogonic

Ans $\times 1$. Theologue
2. Theorem
3. Theology
4. Theogonic
Q. 7 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).
Statements:
Some coats are tables.
No table is a mirror.
All golds are tables.
Conclusions:
I. Some coats being golds is a possibility.
II. No gold is a mirror.
III. All tables are golds.
IV. No coat is a mirror.

Ans

1. Only Conclusion I follows
2. Only Conclusions II and III follow
3. Only Conclusions I and II follow
4. Only Conclusions I, II and IV follow
Q. 8 In a certain code language, 'PLAYGROUND' is written as 'OKZXFQNTMC' and 'SCIENCE' is written as 'RBHDMBD, how will 'TYPEWRITER' be written in that language?
Ans
5. RVNCUQHSDQ
6. SXODVPGRCP
7. RVNCUPGRCP
8. SXODVQHSDQ
Q. 9 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
6 : 125 :: 2 : 1 :: 5 : ?
Ans
$\times 1.81$
9. 64
10. 68
11. 72

Q． 10 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below．

## GBvX2U <br> M <br> $\xrightarrow{N}$

Ans
CB＾XJ
$\times$－gヘXての
$x^{3}$ C B＾X Z
${ }^{\times 4}$ USXVG

Q． 11 In the following question below are given some statements followed by some conclusions based on those statements．Taking the given statements to be true even if they seem to be at variance from commonly known facts．Read all the conclusions and then decide which of the given conclusion logically follows the given statements．
Statements：
I．All P are W．
II．No O is W ．
Conclusion：
I．Some O are not P．
II．All W are 0.
Ans
X 1．Neither conclusion follows
2．Only conclusion I follows
X 3．Only conclusion II follows
4．Both conclusions I and II follows

Q． 12 Three different positions of the same dice are shown．Find the number on the face opposite the face showing＇ 2 ＇．


Figure 1
Figure 2
Figure 3
Ans
$\checkmark 1.4$
$\times 2.5$
$\times 3.6$
$\times 4.1$

Q． 13 Select the correct mirror image of the given combination when the mirror is placed at＇PQ＇as shown below．

## FURNTTURE

## Q

Ans
$\times$ ЯヨUTIVЯU7
$\times$ ョヨИТІИЯГヲ
× ヨ ヨЯUTIИЯUヲ
＊ヨタUT「ИЯUヲ

Q． 14 Which two numbers from amongst the given options should be interchanged to make
the given equation correct？
$248 \div 4+184 \div(4 \times 6-2 \times 8)=77$
Ans
$\times 1.8$ and 4
2． 184 and 77
3． 184 and 248
4.4 and 6

Q． 15 A \＃$B$ means＇$A$ is the sister of $B$＇．
$A @ B$ means＇$A$ is the son of $B$＇．
$A$ \＆$B$ means＇$A$ is the father of $B$＇．
$A \% B$ means＇$A$ is the mother of $B$＇．
If $\mathbf{W} \& Q \# T \& Y @ M \% K$ ，then how is $\mathbf{W}$ related to K ？
Ans
1．Mother＇s father
2．Brother
3．Father＇s father
X 4．Father

Q． 16 In a certain code language，＇BOSS＇is coded as＇ 21967 ＇and＇DEAL＇is coded as
＇19192414＇．How will＇GAIN＇be coded in that language？
Ans
1． 16231512
2． 16241612
3． 16231612
4． 16231611
Q. 17 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row -15, 11, 43
Second row - 13, 8, 48
Third row -9, 7, ?
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
Ans

- 1.23
$\times 2.30$
$\times 3.27$

4. 28
Q. 18 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

$\times 3$.

$\times 4$.

Q. 19 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits.)
$(5,41,4)$
$(2,68,8)$
Ans

1. $(6,100,8)$

X 2. $(5,18,4)$
X $3 .(5,100,4)$
X 4. $(4,49,3)$
Q. 20 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Ant : Antling :: Deer: ?
Ans
X1. Pup
2. Fawn

X 3. Cub
X 4. Foal
Q. 21 Which of the following numbers will replace the question mark (?) in the given series?

97, 131, 165, 199, 233, ?
Ans
$\times 1.260$
$\times 2.273$
$\times 2.273$
X 3.251

- 4.267
Q. 22 If $K \div L$ means that $K$ is the mother of $L, K-L$ means that $K$ is the father of $L, K \times L$ means that $K$ is the sister of $L$, then which of the following expression shows that $P$ is the paternal grandmother of $R$ ?
Ans
$X 1 . P \div Q \times R$
X2. $\mathrm{R}-\mathrm{Q} \div \mathrm{P}$

2. $P \div Q-R$

X4. $Q \div P-R$
Q. 23 Which of the following letter-clusters will replace the question mark (?) in the given series?
HFK, KHM, ?, QLQ, TNS
Ans

1. NJO
$\times 2$. OKN
X 3. MJN
X4. MKP
Q. 24 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. YNUF
< 2. CRYB
2. ATRE
< 4. DSZA
Q. 25 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Rice : Grain :: Lentils: ?
Ans
3. Pulses
4. Sprouts
5. Cereal
6. Starch

Section: General Awareness
Q. 1 As per the Hindu calendar, Ugadi festival in southern states of India is celebrated in which of the following months?

Ans
X 1. Margashirsha
2. Vaishaka
3. Chaitra
4. Shravan
Q. 2 Who among the following was the winner of the National Film Award in 2002 for his choreography in the Hindi movie 'Lagaan'?

Ans

1. Ahmed Khan
2. Raju Khan
3. Dinesh Kumar
4. Shiamak Davar
Q. 3 Which of the following is a feature of public goods?

Ans
$X 1$. These goods are more competitive.
2. These goods are limited in supply.
3. Consumption of one person does not affect the consumption of another person.

Х 4. Only tax payers can get the benefit of public goods.
Q. 4 Which of the following is a right under Article 300A?

Ans
X 1. Right to freedom
X 2. Right to life
3. Right to property

X 4. Right to education
Q. 5 Which of the following is known as the world's wettest place?

Ans
$\times 1$. Waialeal
2. Mumbai
3. Mawsynram
4. Singapore
Q. 6 In September 2022, which legislative assembly withdrew a bill aimed at prohibiting the movement of stray cattle on roads and public places in urban areas of the state, months after it was passed?
Ans
X 1. Andhra Pradesh
2. Gujarat
3. Uttar Pradesh
4. Assam

## Q. 7 Who became the Nawab of Bengal in 1756 after the death of Alivardi Khan?

Ans

1. Siraj Ud Daulah

X 2. Nigam Shaan
X 3. Shaan Nawab
X 4. Murshid Quli Khan
Q. 8 An early temple at Bhitargaon, Uttar Pradesh was built about 1500 years ago was made of $\qquad$ -
Ans
X 1. wood
X 2. mud brick
X 3. clay and thatch
4. baked brick
Q. 9 Which of the following is a famous folk dance of Odisha?

Ans
X 1. Birha
X 2. Ghoomar
X 3. Kalbelia
4. Rangabati
Q. 10 Which theory discusses the relationship between ligand bonding and degradation of $d$ orbitals in metal complexes and the geometry of metal complexes and the splitting of d orbitals?

Ans

1. Crystal field theory (CFT)
2. Ligand field theory (LFT)
3. Valence bond theory (VBT)
4. Molecular orbital theory (MOT)
Q. 11 The West Bengal government has launched 'Paray Shikshalaya' programme. This initiative supports $\qquad$ -
Ans
5. open air classroom
6. financial assistance for girl child

X 3. blackboard distribution in every school
4. higher education for class 10th students
Q. 12 Which Indian musician performed 'Raga For Peace' at the 2014 Nobel Peace Prize Concert in Oslo?

Ans
X 1. Bahadur Khan
2. Amjad Ali Khan
3. Buddhadev Das Gupta
4. Satyaki Banerjee
Q. 13 Who has been appointed as the chairman of Defence Research and Development Organisation and in August 2022?
Ans
X 1. Rajiv bahl
2. Anil Chouhan
3. Samir V Kama

X 4. Ranjit Rath
Q. 14 An undifferentiated layer, $\qquad$ is present in between the ectoderm and the endoderm.
Ans

1. Coeliea
2. Acoelomea

X 3. Ectinoglea
4. Mesoglea
Q. 15 Developing place of settlement is called $\qquad$ .

Ans
$\times 1$. Home
2. Site
$X$ 3. Plain
X 4. Shelter
Q. 16 Which of the following is caused by exagenic force?

Ans

1. Crosion
2. Landslide
3. Earthquake
4. Volcano
Q. 17 How many times has India hosted the ICC Men's Cricket World Cup (One Day)?

Ans $\times 1.2$
$\times 2.1$
$\times 3.4$

- 4.3
Q. 18 The first match of IPL 2022 was played in $\qquad$ -.
Ans
$X 1$. Bengaluru

2. Mumbai
3. Kolkata
4. Lucknow
Q. 19 In India initially HYVP was implemented in about how much area?

Ans
$\times 1.5$ million hectares
< 2. 3 million hectares
3. 4 million hectares
4. 2 million hectares
Q. 20 Which of the following greenhouse gases is most abundant in the atmosphere?

Ans
X 1. Nitrous Oxide
2. Water Vapour

X 3. Methane
4. Carbon Oxide
Q. 21 Who among the following was the best-known Chahamana ruler?

Ans

1. Prithviraja III
2. Vigraharaja II
3. Prithviraja I
4. Vasudeva
Q. 22 In which year was the Indian Parliamentary Group established?

Ans
$\times 1.1950$
2. 1949
$\times 3.1948$
X4. 1951
Q. 23 The government of India initiated the comprehensive family planning programme in the year $\qquad$ .

Ans
$\times 1.1960$
$\times 2.1991$

- 3.1972
$\times 4.1982$
Q. 24 Which of the following revolts was led by Kanhu and Sidhu?

Ans
X 1. Bheel Revolt
X 2. Khasi Revolt
X 3. Munda Revolt
4. Santhal Revolt
Q. 25 Identify an example of diploblastic animals.

Ans
X 1. Platyhelminthes
2. Arachnids
3. Chordates
4. Coelenterates
Q. 1 Study the given graph and answer the following question.


The number of lecturers recruited in state A in the year 2017 was what percentage of the number of lecturers recruited in state B in the year 2019? (Correct to 2 decimal places)
Ans
X $1.42 .50 \%$
X 2. 36.25\%
3. $45.45 \%$
4. 56.23\%
Q. 2 If $x^{2}+y^{2}+z^{2}=x y+y z+z x$ and $x=1$, then find the value of $\frac{10 x^{4}+5 y^{4}+7 z^{4}}{13 x^{2} y^{2}+6 y^{2} z^{2}+3 z^{2} x^{2}}$.

Ans
$\times 1.2$
$\times 2.0$
X 3. -1

- 4.1
Q. 3 A cap having marked price ₹ 90 is sold for ₹ 68 . What is the percent rate of discount (correct up to two decimal places)?

Ans

1. $24.44 \%$
$\times 2.25 .37 \%$
$\times$ 3. $22.00 \%$
X4. $23.22 \%$
Q. 4 If $\triangle A B C \sim \triangle Q R P, \frac{\operatorname{ar}(\triangle A B C)}{\operatorname{ar}(\triangle Q R P)}=\frac{9}{4}, \mathrm{AB}=18 \mathrm{~cm}, \mathrm{BC}=15 \mathrm{~cm}$, then the length of PR is:

Ans $\times 1.16 \mathrm{~cm}$
$\times 2.14 \mathrm{~cm}$

- 3.10 cm

X 4.12 cm
Q. 5 If $x+\frac{1}{2 x}=3$, then evaluate $8 x^{3}+\frac{1}{x^{3}}$.

Ans $\quad \times 1.212$
$\times 2.216$
2. 180

X 4.196
Q. 6
$\sqrt{\frac{1+\sin A}{1-\sin A}}=$ $\qquad$ -

Ans
X 1. coesc $A-\cot A$
$X 2 \cdot \sec A-\tan A$
3. $\sec A+\tan A$

X 4. secA
Q. 7 Two tourist buses start from the same point and move along two roads at right angles at speeds of $48 \mathrm{~km} / \mathrm{h}$ and $36 \mathrm{~km} / \mathrm{h}$, respectively. The distance between the buses after 15 seconds is $\qquad$ -.

Ans
$\times 1.175 \mathrm{~m}$
X 2.350 m

- 3.250 m

X4. 150 m
Q. 8 The table given below shows the earnings of two persons on five different days.

|  | Earnings |  |
| :---: | :---: | :---: |
| Days | P | Q |
| Monday | 105 | 150 |
| Tuesday | 96 | 110 |
| Wednesday | 65 | 122 |
| Thursday | 115 | 106 |
| Friday | 130 | 68 |

What is the ratio of total earnings of $P$ to the total earnings of $Q$ ?
Ans

- 1.511:556
$\times 2.531: 331$
X $3.556: 511$

4. $331: 441$
Q. 9 Five different companies, A, B, C, D and E, make robotic toys. The total number of robotic toys produced by these five companies is $8,00,000$. The cost of production of each robotic toy is $₹ 5,000$. The distribution of the total production is given by the following pie chart. Angle given is in degrees

$\because A=B=C=D=E$

What is the total cost of production of the given item by companies A and E together?
X 1. ₹ 190 crores
$X$ 2. ₹ 85 crores
X 3. ₹96 crores

- 4. ₹ 140 crores
Q. 10 If $\triangle A B C \sim \triangle D E F$, and $B C=4 \mathrm{~cm}, E F=5 \mathrm{~cm}$ and the area of triangle $A B C=80 \mathrm{~cm}^{2}$, then the area of the triangle DEF is:
Ans
$\times 1.169 \mathrm{~cm}^{2}$
$\times 2.80 \mathrm{~cm}^{2}$
$\times 3.144 \mathrm{~cm}^{2}$

4. $125 \mathrm{~cm}^{2}$
Q. 11 A certain sum amounts to ₹ 3,640 in 2 years and $₹ 4,060$ in 8 years at simple interest. Find the approximate rate percentage per annum?
Ans
X1. $4 \%$
, 2. $2 \%$
×3.1\%
X4. 3\%
Q. 12 If $8 \cot \theta=6$, then the value of $\frac{\sin \theta+\cos \theta}{\sin \theta-\cos \theta}$ is:

Ans
$\times 1.12$
$\checkmark 2.7$
$\times 3.2$
$\times 4.5$
Q. 13 The following chart shows the scores of employees in a company's annual performance.


What is the percentage of Kartik's score out of the total score of all the employees?
Ans
X 1. $23.14 \%$
$\times$ 2. $30 \%$
X 3. $22 \%$
4. $20 \%$
Q. 14 Three cubes of equal volume are joined end to end. Find the surface area of the resulting cuboid if the diagonal of the cube is
$6 \sqrt{3} \mathrm{~cm}$.
Ans
X 1. $509 \mathrm{~cm}^{2}$
2. $504 \mathrm{~cm}^{2}$
$X 3.516 \mathrm{~cm}^{2}$
X4. $512 \mathrm{~cm}^{2}$
Q. 15

If $\tan A=\frac{5}{12}$, then the value of $\cos A=$ $\qquad$ -

Ans
X1. $\frac{12}{5}$
2. $\frac{13}{5}$
3. $\frac{5}{13}$
4. $\frac{12}{13}$
Q. 16 The LCM of the two numbers is 4104 and the HCF is 9 . If one of the numbers is 171 , find the other.

Ans
$\times 1.218$
2. 215
3. 220
4. 216
Q. 17 If $x^{2}-2 x y=84$ and $x-y=-10$, then the value of $y$ is:

Ans $\times 1.2$
$\times 2.1$

- 3.4
$\times 4.3$
Q. 18 There are 3 taps A, B, and C in a tank. These can fill the tank in 10 hours, 20 hours and 25 hours, respectively. At first, all three taps are opened simultaneously. After 2 hours, tap $C$ is closed and $A$ and $B$ keep running. After 4 hours from the beginning, tap $B$ is also closed. The remaining tank is filled by tap $A$ alone. Find the percentage of work done by tap A itself.
Ans
X $1.32 \%$
X 2. 75\%
X $3.52 \%$

4. $72 \%$
Q. 19 Prasad goes 96 kilometres on a bike at a speed of $16 \mathrm{~km} / \mathrm{h}$, 124 kilometres at $31 \mathrm{~km} / \mathrm{h}$ in a car, and 105 kilometres at $7 \mathrm{~km} / \mathrm{h}$ in a horse cart. Find his average speed for the entire distance travelled.
Ans
X $1.16 \mathrm{~km} / \mathrm{h}$
5. $13 \mathrm{~km} / \mathrm{h}$

X $3.17 \mathrm{~km} / \mathrm{h}$
X $4.11 \mathrm{~km} / \mathrm{h}$
Q. 20 Apples were purchased at 100 for Rs. 350 and sold at Rs. 48 a dozen. What is the profit or loss percentage?

Ans

1. Profit $14 \frac{2}{7} \%$
2. Loss $18 \frac{3}{5} \%$
$X$ 3. Loss $10 \%$
X 4. Profit $12 \%$
Q. 21 In a $\triangle A B C, A B=B C$, and $P, Q$ and $R$ are the mid points of the sides $A B, B C$ and $A C$, respectively. If $P R=5 \mathrm{~cm}$, then find the length of $Q R$.

Ans
1.5 cm
2. 2 cm
3.7 cm
$\times 4.4 \mathrm{~cm}$
Q. 22 Two numbers are in the ratio of $5: 7$. If 6 be added to each, the ratio becomes $3: 4$. Find the numbers.

Ans

1. 30, 42
2. 55,88
3. 10, 16
4. 25,40
Q. 23 During the first year, the population of a town increased by $12 \%$. The next year, due to some contagious disease, it decreased by $8 \%$. At the end of the second year, the population was 64,400 . Find the population of the town at beginning of the first year.
Ans

- $1.50,000$

2. 54,750
3. 62,500
4.50,500
Q. 24 If the 9-digit number 83P93678Q is divisible by 72 , then what is the value of $\sqrt{\mathrm{P}^{2}+\mathrm{Q}^{2}+12}$ ?

Ans
$\times 1.6$
$\times 2.7$

- 3.8
$\times 4.9$
Q. 25 Three circles of radius 4 cm are kept touching each other. The string is tightly tied around these three circles. What is the length of the string?
Ans

1. $24+8 \mathrm{p} \mathrm{cm}$

X2. $24 p+16 c m$
$\times 3.32+16 \mathrm{pcm}$
X4. $24+18 \mathrm{pcm}$

Section : English Comprehension
Q. 1 Select the correct passive form of the given sentence.

The department conferred a scholarship to Kailash.
Ans
< 1. A scholarship had been conferred to Kailash by the department.
2. A scholarship is being conferred to Kailash by the department.
$\checkmark$
3. A scholarship was conferred to Kailash by the department.
4. A scholarship has been conferred in Kailash by the department.
Q. 2 Select the correct indirect form of the given sentence. Madhurima explained, "I am planning to quit my graduation."
Ans

1. Madhurima explained that she were planning to quit her graduation.

X 2. Madhurima explained that she planned to quit her graduation.
3. Madhurima explained that she was planning to quit her graduation.
4. Madhurima explained that she had been planning to quit her graduation.
Q. 3 Select the INCORRECTLY spelt word.

Ans

1. Dimolish

X 2. Conduct
X 3. Biopic
X 4. Handful
Q. 4 Select the most appropriate ANTONYM of the underlined word.

The Government ruthlessly decided to force its citizens to pay taxes even during famine.

Ans

1. Leniently
2. Indifferently
3. Unscrupulously
4. Tyrannically
Q. 5 Select the most appropriate option that can substitute the underlined segment in the given sentence.
Mother ordered John to switch on the light as it was time to sleep.
Ans
X 1. to switch of the light
5. to switch in the light
6. to switch off the light
7. to switch out the light
Q. 6 Select the word that is OPPOSITE in meaning to the given word.

Cease
Ans
X 1. Origin
X 2. Halt
X 3. Produce
4. Begin
Q. 7 Select the option that contains a grammatical error in the underlined portion.

There are no tables at the classroom.
Ans
$X 1$. There are no tables at the classroom.
$X$ 2. There are no tables at the classroom.
$X$ 3. There are no tables at the classroom.
4. There are no tables at the classroom.
Q. 8 Select the most appropriate meaning of the given idiom.

In hot waters
Ans

1. To be in trouble

X 2. To dip in hot water
$X 3$. To be in a hot climate
X 4. To feel relaxed
Q. 9 Select the most appropriate collocation to substitute the underlined word in the given sentence.

The intern should take a right choice in choosing the right job for her.
Ans $\times 1$. rake a right choice
2. make a right choice

X 3. fix a right choice
X 4. take the right choice
Q. 10 Select the option that is similar in meaning to the underlined word.

No plausible explanation could be found for her disappearance.
Ans
X 1. Just
2. Legal
3. Credible
4. Useless
Q. 11 Select the idiom from the given options that gives the most appropriate meaning of the highlighted text in the following sentence.

The announcement of the new tourism policy of the government has made some people excited or interested.

Ans
X 1. Pull out all the stops
X 2. Run around in circles
3. Quicken the pulse
$\times 4$. Reach for the moon
Q. 12 Select the option that can be used as a one-word substitute for the given group of words.

An excessively intense desire for returning to past or lost conditions
Ans
$\times 1$. Affection
X 2. Glitterati
3. Nostalgia

X 4. Paranoia
Q. 13 Select the option that can be used as a one-word substitute for the given group of words.

The act of killing one's mother
Ans
X 1. Regicide
X 2. Homicide
X 3. Uxoricide
4. Matricide
Q. 14 Select the correct active form of the given sentence.

This game will not be played by you.
Ans

1. You will not play this game.
2. You will not be playing this game.
3. You could not play this game.
4. You had not play this game.
Q. 15 Rearrange the parts of the sentence in correct order.

We are encouraged
P. help accelerate their return to
Q. by how women are embracing online
R. work and promote economic mobility
S. learning to develop new skills that can

Ans

1. QSPR

X 2. PSQR
X 3.PRQS
× 4. SPRQ
Q. 16 Select the most appropriate synonym of the given word.

Wrathful
Ans
X 1. Pleased
X 2. Amiable
3. Furious

X4. Cordial
Q. 17 Select the INCORRECTLY spelt word in the following sentence. Ratan is such an efficient sergeant that he doesn't need to imbibe any artillery craftmanship.
Ans
X 1. artillery
2. efficient
3. craftmanship
4. sergeant
Q. 18 Select the most appropriate option to substitute the underlined segment in the given sentence.
Biden write a letter to the Russian President to restrain from war.
Ans
X 1. writes a letter
2. wrote a letter

X 3. write a good letter
$\times 4$. writing a surprise letter
Q. 19 Select the sentence with the appropriate use of preposition.

Ans $\quad \times 1$. We have been playing for 4 o'clock.
X 2. We have been playing from 4 o'clock
X 3. We have been playing to 4 o'clock.
4. We have been playing since 4 o'clock.
Q. 20 Select the most appropriate option to fill in the blank.

I looked at her face and found she was getting disturbed. I decided to drop that
$\qquad$
Ans

1. product
2. chance
3. subject
4. pride

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is
(1) $\qquad$ by a computer programme or electronic circuitry. In general, robots can be autonomous or semi-autonomous and are now used in different fields. They have replaced (2) $\qquad$ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3) such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4) $\qquad$ Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5) $\qquad$ as they replace workers in increasing numbers of functions.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
$X 1$. included
X 2. chased
3. guided

X 4. challenged

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is (1) by a computer programme or electronic circuitry. In general, robots can be autonomous or semi-autonomous and are now used in different fields. They have replaced (2) $\qquad$ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3) such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4) $\qquad$ . Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5) $\qquad$ as they replace workers in increasing numbers of functions.

SubQuestion No: 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans $\times 1$.machines
2. humans
$\times$ 3. agents
$X 4$. toys

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is
(1) by a computer programme or electronic circuitry. In general, robots can be
autonomous or semi-autonomous and are now used in different fields. They have replaced
(2) $\qquad$ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3) such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4) $\qquad$ Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5) $\qquad$ as they replace workers in increasing numbers of functions.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans $X$ 1. beauty
$X$ 2. pattern
$X$ 3. enjoyment
4. environments

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is (1) by a computer programme or electronic circuitry. In general, robots can be autonomous or semi-autonomous and are now used in different fields. They have replaced (2) $\qquad$ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3) such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4) $\qquad$ . Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5) $\qquad$ as they replace workers in increasing numbers of functions.

SubQuestion No: 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $\quad \mathbf{1}$. network
2. housework
$X$ 3. software
X 4. handwork

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is
(1) by a computer programme or electronic circuitry. In general, robots can be
autonomous or semi-autonomous and are now used in different fields. They have replaced
(2) $\qquad$ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3) such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4) $\qquad$ Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5) $\qquad$ as they replace workers in increasing numbers of functions.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans 1. unemployment
$\times$ 2. peace
X 3. social issues
4. corruption

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | Online Infra |
| Exam Date | 05/12/2022 |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 By interchanging the given two signs and numbers which of the following equation will be not correct?
$x$ and $\div, 2$ and 6
I. $7-4 \times 3 \div 6+2=8$
II. $6-8 \times 2+9 \div 3=5$

Ans

1. Only II
< 2. Neither I nor II
2. Only I
3. Both I and II
Q. 2 Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.


Ans

Q. 3 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(70, 14, 56)
(88, 30, 58)
Ans
X 1. $(44,24,23)$
X 2. $(59,36,25)$

- 3. $(52,19,33)$

X 4. $(38,16,24)$
Q. 4 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
8:128:: 6: ? :: 11:242
Ans $\times 1.64$
2. 72
$\times 3.68$
$\times 4.70$
Q. 5 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

- and $\times, 6$ and 4
I. $7 \times 6+8 \div 2-4$
II. $\mathbf{4 - 7 \times 6 + 8 \div 2}$

Ans

1. 27,42
2. 27,47
3. 27,49
4. 25,40
Q. 6 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some F are D.
II. No A is D.

Conclusion:
I. Some F are A.
II. No $D$ is $A$.
III. Some $F$ are not A.

Ans
X 1. Neither conclusion follows
2. Both conclusions II and III follows
3. Only conclusion I follows
4. Only conclusion III follows
Q. 7 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
7:25:: 4 : 4 :: 3 : ?
Ans
$\times 1.5$
$\times 2.4$

- 3.1
$\times 4.7$
Q. 8 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1-Sennet
2- Sennight
3-Sennit
4-Seniority
5-Senna
Ans
- 1. 4, 5, 1, 2, 3
$\times 2,5,4,2,1,3$
X $3.4,5,2,1,3$
X 4.4,5,1,3,2
Q. 9 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related
to each other based on the number of letters/number of consonants/vowels in the
word.)
Movie : Director :: Orchestra : ?
Ans
X 1. Choreographer

2. Conductor

X 3. Dancer
X 4. Audience
Q. 10 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 2$.

$\times 3$

$\times 4$.

Q. 11

Select the figure that will come next in the following figure series.


Ans


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Q． 12 Which of the following terms will replace the question mark（？）in the given series？
AVTE CTRG ERPI GPNK ？
Ans
．INLM
X 2．MINL
X 3．ILNM
X 4．INJM

Q． 13 If $A \div B$ means that $A$ is the brother of $B, A \times B$ means that $A$ is the sister of $B, A-B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the paternal uncle of $R$ ？
Ans
$X 1 . P-R \div Q$
X2．$P \div R \times Q$
X 3． $\mathrm{P} \times \mathrm{R}-\mathrm{Q}$
4．$P \div R-Q$

Q． 14 Which two numbers，from amongst the given options，should be interchanged to make the given equation correct？
$(6)^{2}-20+(28 \div 7)-[(\sqrt{4}) \times 8]+(2)^{2}=40$
Ans
1． 6 and 8
2． 7 and 2
3． 2 and 8
4． 20 and 8

Q． 15 Select the correct mirror image of the given combination when the mirror is placed at＇ PQ ＇as shown below．

Q
Ans
－2U8ヨอЯО戸
$\times 2$ ХОЭコロタロ
×．2UОヨอЯОอ
× ટ こU8ヨอЯ8อ
Q. $16 A+B$ means ' $A$ is the father of $B$ '
$A$ - $B$ means ' $A$ is the mother of $B$ '
$A \% B$ means ' $A$ is the brother of $B$ '
$A$ \# $B$ means ' $A$ is the daughter of $B$ '
If $\mathbf{P}+\mathbf{Q} \% \mathrm{R} \% \mathrm{~S} \# \mathrm{~T}-\mathrm{U}$, then how is $\mathbf{Q}$ related to U ?
Ans

1. Brother
2. Brother-in-law
3. Father
4. Son
Q. 17 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).
Statements:
Some ships are cups.
No cup is a stool.
All windows are cups.
Conclusions:
I. Some ships being windows is a possibility.
II. No window is a stool.
III. All cups are windows.
IV. No ship is a stool.

Ans

1. Only Conclusions I, II and IV follow
2. Only Conclusions II and III follow
3. Only Conclusions I and II follow
4. Only Conclusion I follows
Q. 18 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 5 '.

Figure 1

Figure 2
Figure 3
Ans
$\times 1.2$
X 2.1

- 3.6
$\times 4.3$
Q. 19 In a certain code language, 'CHILDREN' is written as 'FKLOGUHQ' and 'SCHOOL' is written as 'VFKRRO', how will 'CLASSROOM' be written in that language?

Ans
X 1. EMCTTTQQO
2. EMCTTURRP
3. FOEWWURRP
4. FODVVURRP
Q. 20 In the following question, select the missing number from the given series.

41, 54, 67, 80, 93, ?
Ans

1. 106

X 2. 108
3. 105
4. 110
Q. 21 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
$\times 1.17-31$
2. $13-25$
3. 15-27
4. $9-15$
Q. 22 In a certain code language, 'INBOX' is written as 'MRYCL' and 'EMAIL' is written as 'NVZOR'. How will 'DRAFT' be written in that language?
Ans

1. UGZWI
2. WIZGU
3. IWZGU
4. IWGZU
Q. 23 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
< 1. TQR
5. MJK
6. IFG
7. NKI
Q. 24 Which of the following letter-clusters will replace the question mark (?) and complete the following letter-cluster series?
LE, OJ, UO, DT, ?
Ans
X 1.PZ
X 2. QY
8. PX
9. PY
Q. 25 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
GAIN : HBKP :: ACHE : BDJG :: CAKE : ?
Ans
$X$ 1. DBNH
X 2. DBMH
X 3. DBNG
10. DBMG

Section: General Awareness
Q. 1 Earth's core is mainly made up of $\qquad$ .
Ans
X 1. nickel and copper
2. nickel and alumina
,
3. nickel and iron
4. nickel and magnesium
Q. 2 The subject of the Study of Macro Economics is based on which principle?

Ans

1. The principle of National Income
2. The principle of Consumer
3. The principle of Producer
4. The principle of Investment
Q. 3 Who has been appointed as new National e-Governance Division CEO in March 2022?

Ans
$X 1$. Nitin Chugh
X 2. Rajiv Kumar
3. Abhishek Singh

X 4. TS Ramakrishnan
Q. 4 The Durga temple at Aihole, built about $\qquad$ years ago.

Ans
X 1.1700
X2. 2000
$\times 3.1100$
4. 1400
Q. 5 According to the Brihat Samhita, what do you call the process of making scents, mouth perfumes and bath powders?
Ans
X 1. Jatuka
2. Gandhayukli
3. Kamplcica
4. Pattanga
Q. 6 Which organic compound has the structure $\mathrm{R}-\mathrm{COOH}$, with R referring to the alkyl, alkenyl, aryl, or other group?
Ans

1. Carboxylic acid
2. Ester
3. Ketone
4. Aldehydes
Q. 7 Which Article of the Constitution of India authorises the President to seek the opinion of the Supreme Court in specific categories of matters?
Ans
X 1. Article 144
5. Article 145
6. Article 142
7. Article 143
Q. 8 The 'flag-raising' ceremony by the Prime Minister of India on Independence Day is held at which of the following places in Delhi?

Ans

1. Old Fort
2. Parliament House
3. Rashtrapati Bhavan
4. Red Fort
Q. 9 The British Parliament transferred the powers of the East India company to the British crown in $\qquad$ —.

Ans
X 1.1856
2. 1858
$\times 3.1854$
X4. 1860
Q. 10 According to census 2001, sex ratio is $\qquad$ females per 1000 males.
Ans $\times 1.943$
2. 923
3. 933
4.913
Q. 11 The Central Universities (Amendment) Bill, 2022 was passed in Lok Sabha in

Ans
$\qquad$

1. August

X 2. July
X 3. November
4. September
Q. 12 Which city is called the 'Manchester of India'?

Ans
X 1. Ludhiana
2. Visakhapatnam
3. Hyderabad
4. Ahmedabad
Q. 13 Which of the following is used in photography?

Ans
X 1. Sodium bicarbonate
2. Sodium thiosulphate

X 3. Sodium hydroxide
4. Sodium sulphate
Q. 14 Who among the following rulers appointed Ladha and Pira, two gardeners to high administrative post?
Ans
X 1. Khizr Khan
2. Muhammad Tughluq
3. Bahlul Lodi
4. Iltutmish
Q. 15 Pivoting is related to which of the following sports?

Ans
X 1. Hockey
2. Volleyball
3. Badminton
4. Basketball
Q. 16 Who has been appointed as the country's second Chief of Defence Staff (CDS)?

Ans 1.Anil Chauhan
2. Manoj Kumar
3. $R$ Dinesh
4. Sanjay Agarwal
Q. 17 In all AIBA Boxing competitions, the rest time between each round is $\qquad$ minutes.

Ans

1. 1
$\times 2.2$
2. 3
3. 5
Q. 18 To safeguard public property and to abjure violence is a $\qquad$ in the Indian Constitution.

Ans

1. fundamental duty
2. social ethic
3. fundamental right
4. directive principle of state policy
Q. 19 In honour of an Indian musician, the US state of Massachusetts proclaimed 20 April as
$\qquad$ in 1984.
Ans
5. Sakhawat Hussain Day
6. Sharan Rani Backliwal Day
7. Amjad Ali Khan Day
8. Allauddin Khan Day
Q. 20 Rukmini Devi Arundale is the exponent of which of the following Indian classical dance forms?
Ans
9. Bharatanatyam

X 2. Manipuri
X 3. Sattriya
4. Odissi
Q. 21 In which group are the non-metal elements placed in a vertical column on the right side of the periodic table?
Ans
X 1. Group 1
2. Group 2
3. Group 17
4. Group 3
Q. 22 measures the aggregate production of final goods and services taking place within the domestic economy during a year.
Ans
X 1. Gross National income
2. Gross domestic product
3. Net national product
4. National income at factor price
Q. 23 Nuts, vegetable oil and fish are good source of which of the following?

Ans
X 1. Carbohydrates
X 2. Minerals
3. Healthy fats
4. Proteins
Q. 24 In which of the following years was the Indian National Congress split into two groups named as Moderates and Extremists?

Ans

1. 1895
2. 1899
3. 1907
4. 1904
Q. 25 Who among the following contemporary style dancers was the first Indian dancer to receive the dance WEB Europe Scholarship? He/She also won the 2002 American Choreography Award for his/her work in the movie 'Lagaan'?
Ans
5. Terence Lewis
6. Ashley Lobo

X 3. Padmini Chettur
4. Shakti Mohan

Section: Quantitative Aptitude
Q. 1 Find the number of common tangents, if $r_{1}+r_{2}=C_{1} C_{2}$. (With usual notations, $r_{1} \& r_{2}$ and $C_{1} \& C_{2}$ are the radii and centres of the two circles.)
Ans
X1.1
$\times 2.0$

- 3.3
$\times 4.4$
Q. 2 Which of the following pairs of non-zero values of $p$ and $q$ make 6-digit number 674pq0 divisible by both 3 and 11?
Ans
$X 1 . p=2$ and $q=2$

2. $p=5$ and $q=4$
3. $p=4$ and $q=2$
4. $p=5$ and $q=2$
Q. 3 A policeman saw a thief from a distance of 450 m . When the policeman started chasing him, the thief also started running. The ratio of speeds of the thief to the policeman is 7 : 8. After running how much distance (in km ) can the policeman catch the thief?
Ans
X 1.3 .75
5. 3.4
6. 3.6
7. 3.15
Q. 4 The length of the side of a cube is 5.6 cm . What is the volume of the largest sphere that can be taken out of the cube?

Ans

- $1.91 .98 \mathrm{~cm}^{3}$
$\times 2.99 .96 \mathrm{~cm}^{3}$
$\times 3.96 .98 \mathrm{~cm}^{3}$
$4.90 .69 \mathrm{~cm}^{3}$
Q. 5 The curved surface area of the sphere is $154 \mathrm{~cm}^{2}$. Find the volume of the sphere (rounded off to one digit after decimal).

Ans
$\times 1.156 .9 \mathrm{~cm}^{3}$
2. $179.7 \mathrm{~cm}^{3}$
$\times 3.161 .1 \mathrm{~cm}^{3}$
$4.147 .8 \mathrm{~cm}^{3}$
Q. 6 If $x+\frac{1}{x}=-14$, and $x<-1$, what will be the value of $x^{2}-\frac{1}{x^{2}}$ ?

Ans
X 1. $-112 \sqrt{3}$
2. $112 \sqrt{3}$

X 3. $-140 \sqrt{2}$
X4. $140 \sqrt{2}$
Q. 7 Study the given table and answer the question that follows.

The table shows the number of donuts sold by three different stores in five different months.

| Store | Month |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | July | August | September | October | November |
| P | 400 | 350 | 263 | 125 | 420 |
| Q | 660 | 170 | 465 | 905 | 180 |
| R | 342 | 182 | 700 | 960 | 235 |

What is the ratio of the total number of donuts sold by stores P and R together in October to the total number of donuts sold by stores $Q$ and $R$ together in the same month?

Ans
$\times 1.353: 217$
2. 217:373

X $3.373: 217$
X $4.217: 353$
Q. $8 \quad 0.5$ is what percentage of 20 ?

Ans $\times 1.25 \%$
2. $0.25 \%$
3. $2.5 \%$
4. $0.025 \%$
Q. 9 In triangle $A B C, A D$ is the angle bisector of angle $A$. If $A B=8.4 \mathrm{~cm}$ and $A C=5.6 \mathrm{~cm}$ and $D C=2.8 \mathrm{~cm}$, then the length of side $B C$ will be:
Ans
X 1.4 .2 cm
X 2.5 .6 cm

- 3.7 cm
$\times 4.2 .8 \mathrm{~cm}$
Q. 10 A hotel is giving a discount of $12 \%$ on the booking of 2 or more rooms. Additionally, the hotel is offering a $5 \%$ discount only on payment using any card of SBI. Rakesh booked 2 rooms in the hotel for a day at the rate of Rs.1,500 per room per day. While checking out, he paid the bill using SBI Silver Card. How much amount did he have to pay?
Ans
X 1. Rs.2,498
X 2. Rs.1,254

3. Rs.2,508
4. Rs.2,618
Q. 11 R jogs at twice the speed of walking and runs at twice the speed of jogging. From his home to office, he covers half of the distance by walking and the rest by jogging. From his office to home, he covers half the distance jogging and the rest by running. What is his average speed (in $\mathrm{km} / \mathrm{h}$ ) in a complete round from his home to office and back home if the distance between his office and home is 10 km and he walks at the speed of $5 \mathrm{~km} / \mathrm{h}$ ?
Ans
$\times 1 . \frac{90}{8}$

X2. $\frac{60}{8}$
$\times 3 . \frac{60}{9}$
-4. $\frac{80}{9}$
Q. 12 The ratio of the present ages of Ram and Ramesh is $3: 5$. After 7 years the ratio of their ages will be $4: 5$. Find the present age of Ramesh.
Ans
$\times 1.5$ years
$\times 2.15$ years
-3. 7 years
X 4.12 years
Q. 13

If $\mathrm{k}^{4}+\frac{1}{\mathrm{k}^{4}}=47$, then what is the value of $\mathrm{k}^{3}+\frac{1}{\mathrm{k}^{3}}$ ?

Ans
$\times 1.4 .5$
$\times 2.54$

- 3.18
$\times 4.9$
Q. 14 Ram sold a plot for Rs. $4,00,000$ at a $20 \%$ loss. For what price should he sell the plot to gain a $5 \%$ profit?
Ans

1. Rs.5,25,000
2. Rs.5,20,000
3. Rs.5,00,000
4. Rs.5,05,000
Q. 15 The HCF of two numbers 110 and 1980 is:

Ans
$\times 1.140$
2. 110
$\times 3.120$
4. 180
Q. 16 The simplified form of $(x+2 y)^{3}+(x-2 y)^{3}$ is:

Ans

1. $2 x^{3}+24 x y^{2}$
2. $2 x^{3}-24 x y^{2}$
x 3. $x^{3}-8 y^{3}$
x 4. $x^{3}+8 y^{3}$
Q. 17 In how much time will a sum of Rs. 5250 amounts to Rs. 9870 at the rate of 11 percent per annum at simple interest?
Ans
3. 8 years
(2. 14 years
4. 12 years
4.15 years
Q. 18 The table given below shows the production of bike and truck by five companies.

|  | Production |  |
| :---: | :---: | :---: |
| Companies | Bike | Truck |
| G | 800 | 600 |
| H | 550 | 400 |
| I | 600 | 300 |
| J | 350 | 700 |
| K | 400 | 750 |

What is the ratio of the production of truck by company H and I together to the production bike by company J and K together?
Ans
$\times 1.14: 17$
$\times 2.15: 14$
X $3.14: 19$
4. $14: 15$
Q. 19

If $\sin \theta+\cos \theta=\frac{\sqrt{3}-1}{2 \sqrt{2}}$, then what is the value of $\tan \theta+\cot \theta$ ?
Ans
2. $8(\sqrt{3}-2)$
$\times 2.12(\sqrt{ } 3-2)$
X 3.12( $\sqrt{ } 3+2)$
4. $8(\sqrt{ } 3+2)$
Q. 20 In triangle $A B C$, the bisector of angle $B A C$ cuts the side $B C$ at $D$. If $A B=10 \mathrm{~cm}$, and $A C$
$=14 \mathrm{~cm}$ then what is $B D: B C$ ?
Ans
$\times 1.5: 3$
2.7:5
3.5:2
4. $5: 7$
Q. 21 If $\sin \theta=\frac{8}{17}$, then find the value of $\tan \theta$.

Ans
X1. $\frac{15}{17}$
2. $\frac{8}{15}$
3. $\frac{15}{8}$

X $4 . \frac{17}{15}$
Q. 22 If $\sec 2 \theta=\operatorname{cosec}\left(\theta-36^{\circ}\right)$, where $2 \theta$ is an acute angle, find the value of $\theta$.

Ans $\times 1.32^{\circ}$
$\times 2.46^{\circ}$
$\times 3.20^{\circ}$
4. $42^{\circ}$
Q. 23 The given pie-chart shows the total number of children who opted different courses in a summer camp in May 2019.


300 students attended the summer camp, and every child was allowed to opt only one activity for the camp. The total number of students who opted for Yoga and Painting taken together is how much less than the total number of children who opted for Music and Dance taken together?

Ans
$\times 1.45$
$\times 2.35$

- 3.30
$\times 4.40$
Q. 24 The following table shows the amount of annual rainfall in inches in 8 different states of India.

|  | T | A | M | N | K | P | D | R |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 2015 | 80 | 70 | 98 | 78 | 68 | 65 | 70 | 59 |
| 2016 | 85 | 70 | 95 | 77 | 69 | 60 | 71 | 59 |
| 2017 | 86 | 71 | 96 | 76 | 66 | 67 | 71 | 60 |
| 2018 | 84 | 70 | 96 | 75 | 67 | 66 | 69 | 61 |
| 2019 | 80 | 74 | 97 | 74 | 67 | 64 | 75 | 60 |
| 2020 | 81 | 75 | 98 | 75 | 68 | 65 | 74 | 65 |
| 2021 | 82 | 72 | 98 | 73 | 70 | 65 | 73 | 65 |

How many states have witnessed an increase in the amount of annual rainfall continuously for two times in immediate years?

Ans $\times 1.4$
2.5
$\times 3.3$
4.6
Q. 25 नुमन $4 / 5$ समय में गगन से आधा काम करता है। यदि वे एक साथ एक कार्य को पूरा करने में 16 दिन लेते हैं, तो गगन को उस कार्य को पूरा करने में कितना समय लगेगा?
Ans
X1.23 दिन
X2. 24 दिन
3. 25 दिन
4. 26 दिन

[^2]Q. 1 Select the most appropriate synonym of the given word.

Perseverance
Ans

1. Discipline
2. Tolerance
3. Steadfastness

X 4. Humbleness
Q. 2 Select the most appropriate ANTONYM of the given word. Native
Ans
X 1. Vicinity
X 2. Realm

- 3. Foreign

X4. Aboriginal
Q. 3 Select the INCORRECTLY spelt word.

Ans $\times 1$. Delight
2. Striphe
$X$ 3. Fright
X 4. Knight
Q. 4 Select the option that can be used as a one-word substitute for the given group of words.

A person having significant experience in an occupation
Ans

1. Agnostic

X 2. Fastidious
3. Veteran
4. Novice
Q. 5 Rearrange the parts of the sentence in correct order.

Jobseekers are not
P. being unemployed are a test of faith
Q. self-purification, where the difficulties of
R. relentlessly to a pilgrimage of
$S$. fatalistic but reapply themselves
Ans $\times 1 . \mathrm{SPQR}$
X 2. PQSR
3. SRQP

X 4.RPSQ
Q. 6 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Don't disturb the boy, he prepares for his examination.
Ans
X 1. prepared
2. is preparing

X 3. was preparing
X 4. will be preparing
Q. 7 Select the most appropriate option to complete the given sentence. He booked the tickets for the show $\qquad$ -.

Ans
X 1. in demand
2. in common
3. in depth
4. in advance
Q. 8 Select the most appropriate meaning of the underlined idiom in the given sentence.
"Just add a bit of cheese to your pasta and Bob's your uncle!" Reena suggested to me over dinner last night.

Ans

1. It becomes easily and quickly achievable
2. It changes the appearance
3. It ruins everything
4. It changes nothing
Q. 9 Select the most appropriate meaning of the underlined idiom in the given sentence.

When the District Attorney asked the convict about details of the day of the crime, he started beating about the bush.
Ans
$X 1$. Being excessively aggressive
$X 2$. Accusing others of the crime
3. Speaking in a confusing manner without giving a correct answer

X 4. Trying to invoke sympathy
Q. 10 Choose the incorrectly spelt word.

Ans

1. Innocense
2. Governance
3. Enforcement
4. Insufficient
Q. 11 Select the option that expresses the given sentence in active voice.

I was fascinated by the movie.
Ans

1. The movie fascinated me.
2. The movie was fascinated to me.
3. The movie fascinate me.
4. The movie fascinates me.
Q. 12 Identify the most appropriate ANTONYM of the underlined word in the given sentence.

The patient was happy that he was given ancient methods of treatment to cure her health condition.
Ans
( 1. Multiple
2. Modern
3. Slow
4. Primitive
Q. 13 Select the most appropriate ANTONYM of the given word.

Consent
Ans

1. Dissent
2. Variety
3. Integrity
4. Sanction
Q. 14 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I had walked / for most of the day / to Kanpur and then / get on the train by Mumbai.
Ans

1. I had walked
2. to Kanpur and then
3. get on the train by Mumbai
4. for most of the day
Q. 15 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Have you want me to come with you to the dentist?
Ans
X 1. Has you wanted me
2. No substitution required

X 3. Had you want me
4. Do you want me
Q. 16 Select the most appropriate option to fill in the blank and complete the collocation.

Although she didn't reveal her plans clearly, I had a $\qquad$ idea.
Ans
X 1. clear
2. concise
3. complete
4. rough
Q. 17 Select the option that expresses the given sentence in passive voice.

The first-year students are bidding farewell to their seniors.
Ans
X 1. Farewell is to be bid to their seniors by the first-year students.
X 2. Farewell was being bid to their seniors by the first-year students.
3. Farewell is being bid to their seniors by the first-year students.
4. Their seniors is being bid farewell by the first-year students.
Q. 18 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

The jury was not happy with the performance / and was quite harsh. / The singer took / their criticism in heart.
Ans
$X$ 1. The jury was not happy with the performance
X 2. The singer took
2. their criticism in heart.

X4. and was quite harsh.
Q. 19 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. $\mathbf{P}$. He is well aware of the role he and his people play in keeping Shivsagar Lake as beautiful and ecologically thriving.
Q. However, he is also deeply aware of the fact that the urban idea of conservation often seeks to keep traditional dwellers out.
R. Jason, 45, has a quiet, confident presence.
S. He takes a long time to open up and even after that, he speaks little.

Ans $\times 1 . \mathrm{RQPS}$
2. RSPQ

X 3.PSQR
X4.PRSQ
Q. 20 Select the correct indirect form of the given sentence. Priya assured me, "I can stay in tonight."
Ans $\quad$ 1. Priya told me that she could stay in this night.
2. Priya told me that she could stay in that night.

X 3. Priya told me that she could stay in tonight.
$\times 4$. Priya told me that she can stay in that night.

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1) $\qquad$ great damage upon young people's mental hea have a negative effect because they can (2) $\qquad$ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) $\qquad$ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media
(4) feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5) $\qquad$ blamed social media for the complex reasons why the mental health of so many young people is suffering.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. inflict
2. impious
< 3. perpetrating
3. discrete

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1) $\qquad$ great damage upon young people's mental health. These four platforms
have a negative effect because they can (2) $\qquad$ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) $\qquad$ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media (4) feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5) blamed social media for the complex reasons why the mental health of so many young people is suffering.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
$\times 1$. mitigate
X 2. effectuate
3. exacerbate
4. alleviate

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1) $\qquad$ great damage upon young people's mental have a negative effect because they can (2) $\qquad$ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) $\qquad$ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media
(4) feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5) $\qquad$ blamed social media for the complex reasons why the mental health of so many young people is suffering.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. concern
2. consternate
3. bridle
4. poise

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1) $\qquad$ great damage upon young people's mental health. These four platforms
have a negative effect because they can (2) $\qquad$ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) $\qquad$ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media (4)___ feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5) blamed social media for the complex reasons why the mental health of so many young people is suffering.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans

1. reinforcing
2. accentuate
3. augment
4. ebbing

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1) $\qquad$ great damage have a negative effect because they can (2) $\qquad$ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) $\qquad$ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media
(4) feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5) $\qquad$ blamed social media for the complex reasons why the mental health of so many young people is suffering.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans $\times 1$ 1. legitimately
X 2. impartially
2. unfairly

X4. outlandish

Combined Graduate Level Examination Tier I 2022

| Roll Number | Www.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | Www.HaryanaJobs.in |
| Venue Name | Webinfotron Technologies Pvt. Ltd. |
| Exam Date | 05/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1- Accusable
2- Acerbity
3- Accursed
4- Acetify
5- Accuser
Ans

1. $3,1,5,4,2$
2. $1,3,5,2,4$
3. $3,1,5,2,4$
4. $1,3,5,4,2$
Q. 2 A \& $B$ means ' $A$ is the wife of $B$ '
$A$ \# $B$ means ' $A$ is the father of $B$ '
$A$ @ $B$ means ' $A$ is the son $B$ '
$A \% B$ means ' $A$ is the husband of $B$ '
$A+B$ means ' $A$ is the mother of $B$ '
If $A \& B \# C \& D @ E \% F+G$, then how is $D$ related to $G$ ?
Ans
5. Brother
6. Father
7. Son
8. Son-in-law
Q. 3 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.


Ans

1. $w\ulcorner\ddagger 己 \ddagger \gamma$
2. $\mathrm{m} \Gamma 75 \mathrm{fy}$
3. $w \Gamma f$ टt
4. $w \Gamma f$ टtr
Q. 4 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

Q. 5 Which number will replace the question mark (?) in the following series?

729, 243, ?, 27, 9, 3
Ans
$\times 1.54$
$\times 2.78$

- 3.81
$\times 4.36$
Q. 6 In a certain code language, 'OXYGEN' is written as 'QZAIGP' and 'MIND' is written as 'OKPF'. how will 'DOCTOR' be written in that language?
Ans

1. FQEUPS
2. EQDUPS
3. FQEVQT
4. EQEVQT
Q. 7 Select a suitable figure from the answer figures which would replace the question mark (?).


Ans
$\times 1$.

2.

$\times 3$.

$\times 4$

Q. 8 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as
adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
(5:25:30)
(16:256:272)
Ans
X 1. $(15: 225: 230)$
X 2. $(9: 81: 109)$
X 3. $(19: 361: 381)$
4. $13: 169: 182)$
Q. 9 By Interchanging the given two numbers which of the following equation will be correct?
7 and 4
Ans

1. $4-7+6 \div 2 \times 3=12$

X2. $4 \times 3+7-9 \div 3=20$
X $3.7+4 \times 2-6 \div 2=17$
X4.7+5×2-4 $\div 1=9$
Q. 10 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. $12-50$
$\times 2.8-36$
$\times 3.10-44$
2. $18-76$
Q. 11 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
729: 90 :: ? : 56 :: 512 : 72
Ans
$\times 1.323$
3. 343
$\times 3.352$
4. 335
Q. 12 In a certain code language, 'STAR' is coded as '92678' and 'FLAG' is coded as '20261521'. How will 'LOGO' be coded in that language?
Ans
5. 12201215
6. 12221214
7. 15122012
8. 12201325
Q. 13 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?
$72+(7 \times 8)-(126 \div 14)-(4)^{2}=150$
Ans
$\times 1.72$ and 126
$\times 2.7$ and 4
X 3.8 and 4
9. 14 and 7
Q. 14 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
17 : 4607 :: 11 : ? :: 23 : 11615
Ans
10. 1440
11. 1572
12. 1463
13. 1199
Q. 15 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
AREA : BRFA :: BABY : CACY :: GOLD : ?
Ans
X 1. IOMD
14. HOME
15. HOMD
16. HOND
Q. 16 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All colour are small.
II. No small are big.

Conclusion:
I. All small are colour.
II. Some small are colour.
III. All big are colour.

Ans
X 1. Neither conclusion follows
X 2. Only conclusion III follows
3. Only conclusion II follows

X 4. Both conclusions I and II follows
Q. 17 Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.

Ans

1. ZWSQ
2. TRNL
3. PNJH
4. JHDB
Q. 18 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
TMT, ZOB, FQJ, LSR, ?
Ans

- 1. RYO

2. RZO
3. RUZ
4. RZQ
Q. 19 Which of the following letter-clusters will replace the question mark (?) in the given series?
WNM, ULO, SJQ, QHS, ?
Ans
5. OFU
6. PFS
7. OGU
8. PGT
Q. 20 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with
commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All books are pencils.
Some pencils are pens.
All pens are erasers.
Conclusions:
I. Some erasers are pencils.
II. All pens are books.
III. Some erasers are pens.

Ans $\times 1$. Only conclusions I and II follow.
X 2. Only conclusions II and III follow.
3. Only conclusions I and III follow.
$\times 4$. All conclusions follow.
Q. 21 If $A \div B$ means that $A$ is the mother of $B, A-B$ means that $A$ is the father of $B, A+B$ means that $A$ is the sister of $B$, then which of the following expression shows that $P$ is the mother of $R$ ?
Ans
$X 1 . P+Q-R$
2. $P \div Q+R$

X 3. P-R + Q
X4. $\mathrm{Q}+\mathrm{P}-\mathrm{R}$
Q. 22 Select the figure that will come next in the following figure series.


Ans

Q. 23 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/numbers of consonants/vowels in the
word)
Race : Track
Ans

1. Athletics: Stadium
2. Cart: Wheel
3. Wrestling : Court
4. Exercise : Course
Q. 24 Select the option figure in which the given figure ( X ) is embedded as its part (rotation is NOT allowed).
(x)


Ans
$\times 1$

$\times 2$.

$\times 3$


- 4. 


Q. 25 By interchanging the given two signs and numbers which of the following equation will be not correct?
$\div$ and $\times, 1$ and 3
Ans
X $1.6 \div 3-1+4 \times 2=5$
2. $4 \times 3-1+8 \div 2=9$

Х $3.5-8 \times 3+9 \div 1=24$
$4.6+4-9 \times 3 \div 1=-17$

Section: General Awareness
Q. 1 A group of ribosomes attached to mRNA is known as:

Ans
X 1. polypeptide
2. polysomes
3. polymer
4. monomer
Q. 2 Kelucharan Mohapatra, awarded with the Padma Vibhushan in the year 2000, was a dancer of which of the following classical dance forms?

Ans

1. Odissi
2. Kathakali
3. Kathak
4. Manipuri
Q. 3 The Right to Freedom of Religion is contained within which Articles of the Constitution of India?
Ans
$\times 1$
5. Article 19 to Article 22
6. Article 29 to Article 30
7. Article 25 to Article 28
8. Article 14 to Article 18
Q. 4 Which of the following is NOT an indirect tax?

Ans
X 1. Excise tax
2. Goods and Services tax
3. Customs duty
4. Wealth tax
Q. 5 Under which scheme, Lieutenant Governor Manoj Sinha inaugurated "UMEED Market Place" in Jammu and Kashmir?

Ans
X 1. Stand Up India Scheme
2. Ujjwala scheme
3. AVSAR Scheme of Airport Authority of India
4. KUSUM scheme
Q. 6 The bird like pheasant and monals are found in which type of forest?

Ans

1. Temperate deciduous forest

X 2. Tropical evergreen forest
3. Temperate evergreen forest
4. Mediterranean forests
Q. 7 In which of the following years was the first train run in India?

Ans

- 1.1853
$\times 2.1854$
X 3.1852
-4. 1855
Q. 8 Which of the following dance forms is mentioned in the ancient text of Vyavaharmala?

Ans $\times 1$. Sattriya
2. Mohiniyattam
3. Manipuri
4. Odissi
Q. 9 The SI unit of electric charge is a

Ans

1. coulomb
2. watt
3. newton
4. joule
Q. 10 In September 2022, the Supreme Court allowed all women, irrespective of their marital status, to safely and legally abort their child till $\qquad$ of pregnancy under the Medical Termination of Pregnancy (MTP) Act.
Ans
X 1.30 weeks
X 2.15 weeks
v. 24 weeks

X 4.18 weeks
Q. 11 Which Article of the Constitution of India mentions that business in Parliament shall be transacted in Hindi or English?

Ans

1. Article 120
2. Article 121
3. Article 122
4. Article 119
Q. 12 In 1526, the battle of Panipat was fought between

Ans $\times 1$. Babur and Rana Sanga
X 2. Akbar and Hemu
X 3. Humayun and Sher Khan

- 4. Babur and Ibrahim Lodi
Q. 13 Highest sex ratio according to census 2011 is of which state?

Ans
X 1. Chhattisgarh
X 2. Andhra Pradesh
X 3. Tamil Nadu
4. Kerala
Q. 14 The age range for the Youth Boxer category is:

Ans $\mathbf{X 1 . 1 5 - 1 6 \text { years }}$
2. 19-20 years
3. 17-18 years
4. $13-18$ years
Q. 15 Hot, dry winds blowing in the Northern plain in India are known as $\qquad$ -.
Ans $\quad$ 1. North easterly winds
X 2. Westerlies
3. Loo

X 4. Nor westers
Q. 16 In which of the following Indian states is Lokrang festival observed?

Ans

1. Jharkhand
2. Gujarat
3. Rajasthan
4. Madhya Pradesh
Q. 17 In which among the following period Catal Huyuk was one of the most famous sites?

Ans

1. Neolithic
2. Mesolithic
3. Palaeolithic
4. Chalcolithic
Q. 18 In 1600, the East India company acquired a charter from which ruler?

Ans

1. King George-I
2. Queen Elizabeth-I
3. Queen victoria
4. King James-I
Q. 19 'Imperfect' is an autobiography of:

Ans $\times 1$. Rahul Dravid
2. Ravi Shastri
3. Milkha Singh
4. Sanjay Manjrekar
Q. 20 Which of the followings HYV seeds is/are associated with the Green Revolution in India?
(A) Rice
(B) Wheat

Ans

1. Both $A$ and $B$
2. Only A
3. Neither $A$ nor $B$
4. Only B
Q. 21 In Tennis which of the following scores is a complete set?

Ans
$\times 1.5-3$
2. 6-4

X 3.6-6
$\times 4.6-5$
Q. 22 Identify a protein-digesting enzyme.

Ans

1. lipase
2. Amylase
3. Collagen
4. Pepsin
Q. 23 Which of the following became India's first State Assembly to implement the National e-Vidhan Application (NeVA) programme to become paperless?
Ans
X 1. Haryana
< 2. Tripura
5. Nagaland

X 4.Assam
Q. 24 Who among the following ruler ruled before Prithviraj Chauhan over Delhi?

Ans
X 1. Ghiyasuddin Balban
2. Ananga Pala

X 3. Jalaluddin Khalji
4. Qutbuddin Aybak
Q. 25 Motion of an object is $\qquad$ if its velocity is constant.
Ans $\times 1$. only accelerating
X 2. only decelerating
X 3. non-uniform
4. uniform

Section : Quantitative Aptitude
Q. $1 \cos ^{2} 35^{\circ}+\cos 55^{\circ} \cdot \sin 35^{\circ}+\frac{\tan 34^{\circ}}{\cot 56^{\circ}}=$ $\qquad$ .

Ans

1. 2
$\times 2.3$
$\times 3.4$
$\times 4.1$
Q. 2 The total surface area of a cube is $1536 \mathrm{~m}^{2}$. Find its volume.

Ans
X1. $216 \mathrm{~m}^{3}$
X2. $125 \mathrm{~m}^{3}$
3. $4096 \mathrm{~m}^{3}$
4. $729 \mathrm{~m}^{3}$
Q. 3 A certain sum of money becomes triple of itself in 26 years at simple interest. In how many years it will becomes five times of itself?
Ans
X 1.64 years
2. 52 years

X 3.56 years
4.60 years
Q. 4 On dividing a certain number by 363 , we get 17 as the remainder. What will be the remainder when the same number is divided by $11 ?$
Ans
$\times 1.7$
-2. 8
3. 6
4. 9
Q. 5 If $a-b=2$ and $a^{3}-b^{3}=80$, then what will be the value of $a b$ ?

Ans

- 1.12

2. -24
$\times 3.24$
3. -12
Q. 6

If $\frac{1}{x^{2}+a^{2}}=x^{2}-a^{2}$, then the value of x is:
Ans
$X_{1 .}\left(1-a^{4}\right)^{1 / 4}$

X2. a
X 3. $\left(a^{4}-1\right)^{1 / 4}$
4. $\left(a^{4}+1\right)^{1 / 4}$
Q. 7 The following table shows the shares traded on Mumbai, Rajasthan, Uttar Pradesh and Uttarakhand stock exchanges:

|  | Mumbai |  | Uttaralkha |  | Rajasthan | Uttar Pradesh |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Name of the company | High | Low | High | Low | High | Low | High | Low |
| Aata tea | 540 | 395 | 450 | 4255 | 320 | 510 | 440 | 310 |
| Kolgate | 34 | 57 | 60 | 42 | 25 | 60 | 20 | 70 |
| Imbuja cement | 150 | 155 | 120 | 125 | 160 | 135 | 145 | 170 |

The average of the high rates of the shares in all the four stock exchanges for Kolgate is:
Ans

1. ₹ 34.75
×2. ₹ 51.07
$\times$ 3. ₹52.04
X4. ₹ 63.21
Q. 8 The speed of a boat in still water is $5 \frac{1}{3} \mathrm{~km} / \mathrm{h}$. It is found that the boat takes thrice as much time to row up than it does to row down the same distance in the river stream. Find the speed of the river stream.
Ans
X 1. $\frac{23}{27} \mathrm{~m} / \mathrm{sec}$
X 2. $\frac{22}{27} \mathrm{~m} / \mathrm{sec}$
2. $\frac{20}{27} \mathrm{~m} / \mathrm{sec}$

X4. $\frac{19}{27} \mathrm{~m} / \mathrm{sec}$
Q. 9 The largest five-digit number which when divided by 7, 9 and 11, leaves the same remainder as 3 in each case, is:
Ans
X1. 95840
X 2.98685
$\times 3.96720$

- 4.99795
Q. 10

If the ratio of area of two similar triangles is $\sqrt{3}: \sqrt{2}$ then what is the ratio of the
corresponding sides of the two triangles?
Ans
X1.9:4
X 2.3:2
X3. $\sqrt[3]{3}: \sqrt[3]{2}$
-4. $\sqrt[4]{3}: \sqrt[4]{2}$
Q. 11 The pie chart given below shows the sales of 7 different companies. The total sales of all these 7 companies is $\mathbf{2 1 6 0}$. The sale of a particular company is shown in terms of degree with respect to the total sales of all these 7 companies.


The total sales of $P, R$ and $S$ are how much percent less than the total sales of $Q, T$ and U?

Ans
X 1.56 .42 percent
X 2. 24.42 percent
3. 46.53 percent
4. 32.32 percent
Q. 12
$\sqrt{\frac{1+\cos \theta}{1-\cos \theta}}+\sqrt{\frac{1-\cos \theta}{1+\cos \theta}}=$ $\qquad$ $-$
Ans
X 1. $2 \sin \theta$
X 2. $2 \cos \theta$
, 3. $2 \operatorname{cosec} \theta$
X 4. $2 \sec \theta$
Q. 13 The table given below shows the marks obtained by two students in 6 subjects.

|  | Students |  |
| :---: | :---: | :---: |
| Subjects | A | B |
| P | 180 | 90 |
| Q | 240 | 420 |
| R | 360 | 390 |
| S | 300 | 210 |
| T | 60 | 270 |
| U | 330 | 120 |

What is the difference between the total marks obtained by $A$ and $B$ in all the 6 subjects?
Ans
$\times 1.40$
2. 30
$\times 3.20$
4. 50
Q. $14 \triangle A B C$ and $\triangle D E F$ are congruent respectively. If $A B=6=D E, B C=8=E F$ and $m \angle B=$ $30^{\circ}$, then $m \angle D+m \angle C=$ $\qquad$ _.
Ans
$\times 1.160^{\circ}$
(2. $120^{\circ}$
( $3.130^{\circ}$
4. $150^{\circ}$
Q. 15 The following table gives the percentage of marks obtained by six students in six different subjects in an examination.

|  | English <br> $(100)$ | Science <br> $(100)$ | Mathematics <br> $(100)$ | Social <br> Science <br> $(100)$ | Hindi <br> $(100)$ | Computer <br> Science <br> $(100)$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A | 75 | 58 | 72 | 68 | 63 | 73 |
| B | 82 | 85 | 74 | 36 | 52 | 65 |
| C | 65 | 58 | 61 | 63 | 68 | 75 |
| D | 84 | 78 | 72 | 73 | 65 | 68 |
| E | 78 | 72 | 59 | 63 | 71 | 72 |
| F | 74 | 68 | 75 | 82 | 88 | 86 |

The number of students who obtained $60 \%$ marks and above in all subjects is:
Ans
$\times 1.3$
$\times 2.1$

- 3.2
$\times 4.4$
Q. 16 If an angle of a right-angled triangle is $35^{\circ}$, then find the other angles.

Ans
$\times 1.90^{\circ}$ and $75^{\circ}$
X 2. $90^{\circ}$ and $35^{\circ}$

- $3.90^{\circ}$ and $55^{\circ}$

X $4.90^{\circ}$ and $45^{\circ}$
Q. 17 A dishonest dealer sells a product at $11 \%$ loss on cost price, but uses $22 \%$ less weight. What is his percentage profit or loss?
Ans
X 1.14.1\% loss
2. $14.1 \%$ gain

X 3.11.4\% gain
X 4.11 .4 \% loss
Q. 18 A shopkeeper earns $10 \%$ on an investment but loses $20 \%$ on another investment. If the ratio of the two investments is $2: 3$, then the combined loss percentage is:

Ans
$\times 1.5 .5 \%$
2. $7 \%$
3. $6 \%$
4. $8 \%$
Q. 19 Which of the following statement is correct?
I. The value of $100^{2}-99^{2}+98^{2}-97^{2}+96^{2}-95^{2}+$ $94^{2}-93^{2}+\ldots \ldots+22^{2}-21^{2}$ is 4840 .
II. The value of
$\left(\mathrm{k}^{2}+\frac{1}{\mathrm{k}^{2}}\right)\left(\mathrm{k}-\frac{1}{\mathrm{k}}\right)\left(\mathrm{k}^{4}+\frac{1}{\mathrm{k}^{4}}\right)\left(\mathrm{k}+\frac{1}{\mathrm{k}}\right)\left(\mathrm{k}^{4}-\frac{1}{\mathrm{k}^{4}}\right)$ is $\mathrm{k}^{16}-\frac{1}{\mathrm{k}^{16}}$.
Ans
X 1. Neither I nor II
X 2. Only II
3. Only I
< 4. Both I and II
Q. 20 A contractor decided to complete a work in 80 days and employed 60 men at the beginning and 20 men additionally after 20 days and got the work completed as per schedule. If he had not employed the additional men, how many extra days would he have needed to complete the work (round off to the nearest integer)?
Ans
$\times 1.32$ days
2. 20 days
$\times 3.30$ days
X 4.26 days
Q. 21 The length of the side of a cube is 4.2 cm . What is the volume of the largest sphere that can be taken out of the cube?
Ans
$\times 1.26 .40 \mathrm{~cm}^{3}$
X $2.20 .50 \mathrm{~cm}^{3}$
V. $38.80 \mathrm{~cm}^{3}$
$\times 4.48 .60 \mathrm{~cm}^{3}$
Q. 22 A tradesman marks his goods 20\% above his cost price. If he allows his customer 20\% discount on the marked price, how much profit or loss does he make, if any:
Ans
X 1.2\% loss
2. $4 \%$ loss
3. $1 \%$ profit
4. 3\% profit
Q. 23 What will be the value of $\cos x \operatorname{cosec} x-\sin x \sec x$ ?

Ans
$x 1 . \cot \frac{2 x}{2}$
X 2. $\tan 2 x$
X $3 . \cot 2 x$
4. $2 \cot 2 x$
Q. 24 A varies directly as the positive square root of $B$, and inversely as the cube of $C$. If $A=$ 15 , when $B=27$ and $C=2$, then find $B$ when $A=9$ and $C=2$.

Ans

1. $\frac{281}{42}$
2. $\frac{243}{25}$
3. $\frac{264}{37}$
$\times 4 . \frac{275}{51}$
Q. 25 The average weight of 5 men decreases by 3 kg when one of them weighing 150 kg is replaced by another person. Find the weight of the new person.
Ans
X 1.125 kg
X 2.100 kg
X 3.120 kg

- 4.135 kg


## Section : English Comprehension

Q. 1 Select the correct passive form of the given sentence.

My parents have booked a mini-getaway for me.
Ans $\times 1$. A mini-getaway was being booked for me by my parents.
2. A mini-getaway had been booked for me by my parents.
3. A mini-getaway was been booked for me by my parents.
4. A mini-getaway have been booked for me by my parents.
Q. 2 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

There are some monkeys / on the roof of the / carriage but Madhav / did not see them.
Ans
$\times 1$. on the roof of the
2. There are some monkeys
3. carriage but Madhav
4. did not see them.
Q. 3 Select the most appropriate synonym of the word Amend.

Ans

1. Rectify

X 2. Harm
X 3. Impair
X 4. Worsen
Q. 4 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Rita will never have changed her job if she would have been promoted.
Ans
X 1. No substitution
2. should never have
3. would never have
4. shall never have
Q. 5 Select the INCORRECTLY spelt word in the following sentence.

Sudhir's harrassment is not only perceivable and occasional but also has become a matter of humorous incident before his colleague.
Ans
$X 1$. colleague
2. harrassment
3. Humorous
4. perceivable
Q. 6 Select the most appropriate option to fill in the blank.

The trainee wanted to know the $\qquad$ of the course to get a better understanding of the job prospects.

Ans

1. ins and outs
2. bird's eye view
3. crying need
4. tall talk
Q. 7 Select the most appropriate option to fill in the blank.

This drama is extremely informative $\qquad$ life in Roman times.
Ans
X 1 . on
$\times 2$. of
3. about
$\times 4$. for
Q. 8 Select the most appropriate collocation to fill in the blank.

Arun and his wife were $\qquad$ a baby boy after 18 years of their marriage.
Ans
X 1. delighted with
X 2. prepared with
X 3. provided with
4. blessed with
Q. 9 Select the most appropriate synonym of the given word.

Impede
Ans
X 1. Intend
X 2. Prompt
X 3. Respite
4. Hinder
Q. 10 Select the INCORRECTLY spelt word.

Ans
X 1. Warden
2. Poliseman
3. Engineer
4. Doctor
Q. 11 Select the most appropriate synonym of the underlined word in the given sentence.

The audience was mesmerised by the speech delivered by the vivacious lady.
Ans

1. Energetic
2. Fearless
3. Prosperous
4. Friendly
Q. 12 Select the option that expresses the given sentence in active voice.

The gate was opened by the peon.
Ans

1. The peon is opening the gate.
2. The peon opened the gate.
$\times$ 3. The peon was opening the gate.
3. The gate was being opened by the peon.
Q. 13 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. They are on the market already but they are costly.
Q. Their cost depends on the sort you install and the size of your home.
$R$. These devices extract warmth from the air or the ground, or from water - a bit like a
fridge operating in reverse.
S. Climate advisers anticipate that most homes in future will be warmed by heat pumps.
Ans
X 1.RQPS
X 2. SQRP
4. SRPQ

X4.PRSQ
Q. 14 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The art history teacher was sacked after she were thought taking school supplies.
Ans $\quad$ 1. she was wondered
2. she was dumped
3. she was caught
4. she was enlightened
Q. 15 Rearrange the parts of the sentence in correct order.

Lighting has
P. to become a disrupter and
Q. become human-centric as our
R. requirements change during the day and
$S$. lighting has to adapt to our change in needs
Ans
X 1.PSQR
X 2. RPQS
X 3. QRSP
4. PQRS
Q. 16 Select the most appropriate synonym of the given word.

Mercy
Ans $\times 1$. Legacy
2. Clarity
3. Clemency
4. Plurality
Q. 17 Select the option that can be used as a one-word substitute for the given group of words.

The act of washing oneself
Ans

1. Ablutions
2. Solutions
3. Steaming

X4. Bathing
Q. 18 Select the correct direct form of the given sentence.

Aryan told me that I knew where to find him.
Ans

1. Aryan said to me, "You know where to find me."

X 2. Aryan said to me, "You knowing where to find me."
X 3. Aryan said to me, "You are known where to find me."
X 4. Aryan says to me, "You know where to find me."
Q. 19 Select the idiom that can correctly replace the underlined part of the given sentence.

I know she really wants the promotion, but she really hit me below the hand by telling the boss about my personal problems.
Ans
X 1. hit me the bricks
X 2. hit me below the books
3. hit me below the bottle
4. hit me below the belt
Q. 20 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

He will make mistakes, but he will learn / by making mistakes. So, dear parents, / once you put the money in your / children's little pockets, forget all on it.
Ans

1. children's little pockets, forget all on it
2. once you put the money in your
3. by making mistakes. So, dear parents,
4. He will make mistakes, but he will learn

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Women won their present status through (1) $\qquad$ and sacrifices rather than through men's kindness. Women and their supporters have fought, and in some places continue to fight for the same rights as (2) $\qquad$ Laws were made to replace local customs which denigrated and suppressed women's rights. Women have (3) $\qquad$ higher positions in the world at all levels; political, economic and social. But in reality, women still suffer from (4) $\qquad$ at various levels. For example, women work more and earn less than men. In addition to that, the majority of the world's poor and illiterate are women. The road to real (5) $\qquad$ is still long.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. struggle
2. happiness
3. dignity
4. joy

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Women won their present status through (1) $\qquad$ and sacrifices rather than through men's kindness. Women and their supporters have fought, and in some places continue to fight for the same rights as (2) $\qquad$ Laws were made to replace local suppressed women's rights. Women have (3) $\qquad$ higher positions in the world at all levels; political, economic and social. But in reality, women still suffer from (4) $\qquad$ at various levels.
For example, women work more and earn less than men. In addition to that, the majority of the world's poor and illiterate are women. The road to real (5) $\qquad$ is still long.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. everyone
2. men
$\times$ 3. universal
X 4. politicians

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Women won their present status through (1)___ and sacrifices rather than through men's kindness. Women and their supporters have fought, and in some places continue to fight for the same rights as (2) $\qquad$ Laws were made to replace local customs which denigrated and suppressed women's rights. Women have (3) $\qquad$ higher positions in the world at all levels; political, economic and social. But in reality, women still suffer from (4) $\qquad$ at various levels. For example, women work more and earn less than men. In addition to that, the majority of the world's poor and illiterate are women. The road to real (5) $\qquad$ is still long.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. snatched
$\times 2$ gripped
X 3. plucked
2. gained

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Women won their present status through (1)
$\qquad$ and sacrifices rather than through men's kindness. Women and their supporters have fought, and in some places continue to fight for the same rights as (2) $\qquad$ Laws were made to replace local customs which denigrated suppressed women's rights. Women have (3) $\qquad$ higher positions in the world at all levels; political, economic and social. But in reality, women still suffer from (4) $\qquad$ at various levels. For example, women work more and earn less than men. In addition to that, the majority of the world's poor and illiterate are women. The road to real (5) $\qquad$ is still long.

SubQuestion No: 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $\times 1$.issues
X 2. tolerance
$X$ 3. equality
4. discrimination

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Women won their present status through (1) $\qquad$ and sacrifices rather than through men's kindness. Women and their supporters have fought, and in some places continue to fight for the same rights as (2) $\qquad$ . Laws were made to replace local customs which denigrated and suppressed women's rights. Women have (3)___ higher positions in the world at all levels; political, economic and social. But in reality, women still suffer from (4) $\qquad$ at various le
For example, women work more and earn less than men. In addition to that, the majority of the world's poor and illiterate are women. The road to real (5) $\qquad$ is still long.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. probability
X 2. maturity
3. equality

X 4. eligibility

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| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
REV, UXD, XQL, AJT, ?
Ans
$\times 1$. DMR
$\times 2$. DRM
X 3. RMQ
4. DCB
Q. 2 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 3 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related
to the third letter-cluster.
OILS : UNLS :: PAIN : PKDT :: QUIK : ?
Ans
X 1. MLXU
X 2. MKXV
X 3. MLYV
4. MKXU
Q. 4 Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All javascript are binary.
All binary are minecraft.
All roblox are minecraft.
Conclusions:
I. Some javascript are roblox.
II. Some javascript are minecraft.
III. All javascript are minecraft.

Ans $\times 1$. Only conclusions I and III follow
X 2. Only conclusions I and II follow
3. All conclusions follow
4. Only conclusions II and III follow
Q. 5 Select the figure that will come next in the following series.


Ans

$\times 2$.

$\times 3$

$\times 4$.

Q. 6 Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.


B
Ans

$\times 2$.


- 3. 


$\times 4$.

Q. 7 Which letter cluster will replace the question mark (?) to complete the given series? ZUPK, YTOJ, ?, WRMH, VQLG

Ans

1. XSNI
2. XSMI
3. XSNJ
4. XTNI
Q. 8 Which of the following interchange of numbers and signs would make the given equation correct?
$10-4 \div 20+16 \times 8=16$
Ans $\times 1.10$ and $16, \times$ and $\div$
5. 4 and $8, \times$ and-
6. 4 and $20,+$ and $\div$
7. 10 and $20,+$ and $\times$
Q. 9 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
47:9:: ? : 14 :: 92 : 18
Ans
8. 72
9. 73
10. 37
11. 27
Q. 10 If ' + ' means ' $\div$ ', ' - ' means ' + ', ' $x$ ' means ' - ' and ' $\div$ ' means ' $x$ ', what will be the value of the following expression?
$[\{(32 \times 20)-(2 \div 3)\}+(2-4)] \div 3$
Ans
$\times 1.8$
-2. 10
12. 9
13. 6
Q. 11 Select the figure that will come next in the following figure series.


Ans

< 4.

Q. 12 Which number will replace the question mark (?) in the following series? 27, 29, ?, 182, 730, 3652

Ans
$\times 1.58$
$\times 2.110$
$\times 3.122$

- 4.60
Q. 13 By Interchanging the given two numbers which of the following equation will be correct?
1 and 7
Ans
X $1.7 \times 2+1-5=6$
X2. $1 \times 2-7+8 \div 2=16$
- $3.7+1 \times 2-6 \div 3=13$

X4. $7+6 \div 3-5 \times 1=-10$
Q. 14 Select the set in which the numbers are NOT related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed) (16, 7, 112)
Ans $\times 1 .(18,3,54)$
2. $(14,5,70)$
3. $(22,7,154)$
4. $(26,5,132)$
Q. 15 ' $A$ @ $B$ ' means ' $A$ is the husband of $B$ '.
' $A$ \& $B$ ' means ' $A$ is the mother of $B$ '.
' $A$ \# $B$ ' means ' $B$ is the daughter of $A$ '.
If D \# E \# F \& G @ H \# I, then how is G related to $E$ ?
Ans

1. Daughter
2. Son
3. Father
4. Daughter's son
Q. 16 If $A+B$ means that $A$ is the father of $B, A-B$ means that $A$ is the mother of $B, A \times B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the son of $P$ ?
Ans
$X 1 . P-R \times Q$
5. $Q-P \times R$
6. $P-Q+R$
7. $P-Q \times R$
Q. 17 After arranging the given words according to dictionary order, which word will come at
'Third' position?
8. Oblivion
9. Oblique
10. Oblige
11. Oblate
12. Oblong

Ans
X 1. Oblate
2. Oblique

X 3. Oblige
4. Oblivion
Q. 18 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans

1. IJM
2. ABE
3. $X Y A$
4. EFI
Q. 19 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans
X1.20-406
2. $14-200$
3. $10-106$
4. $12-150$
Q. 20 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Cricket : Pitch :: Badminton : ?
Ans
X 1. Track
2. Field
3. Court
4. Pool
Q. 21 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
12:120:: 20 : $360:: 3$ : ?
Ans

1. 15
2. 32
3.7
3. 3
Q. 22 In a certain code language, 'GLAND' is written as 'GQDOJ' and 'MEANS' is written as 'VQDHP'. How will 'CYSTS' be written in that language?

Ans
$\times 1$. VWVCF
2. FBVWV
3. UVUAE
4. VWVBF
Q. 23 Select the cubethat can be formed by folding the given sheet along the lines.


Ans
X 1. Only D
2. Only A and C
3. Only C and D
4. Only B
Q. 24 In a certain code language, 'birds are flying' is coded as ' 536 ', 'the nest is big' is coded as '3423' and 'close the door' is coded as '534'. How will 'complete your work' be coded in that language?
Ans

1. 844
2. 484
$\times 3.733$
3. 955
Q. 25 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. No $A$ is $D$.
II. All D are E.

Conclusions:
I. No $D$ is $A$.
II. Some E are D.

Ans

1. Neither conclusion follows
2. Both conclusions I and II follows
3. Only conclusion II follows
4. Only conclusion I follows

Section: General Awareness
Q. 1 What is the difference in the number of years between the summer and winter Olympic events?
Ans
X1.1

- 2.2
$\times 3.4$
$\times 4.3$
Q. 2 Battle of Plassey was fought between English company and Nawab of Bengal in which year?
Ans
X1. 1750
- 2.1757

X 3.1850
$\times 4.1857$
Q. 3 Which of the following countries hosted the 2022 Asian Wresting Championships where Ravi Dahiya became the first Indian freestyle wrestler to win a hat-trick of gold medals?
Ans
X 1. Almaty, Kazakhstan
X 2. New Delhi, India
2. Ulaanbaatar, Mongolia

X 4. Xi'an, China
Q. 4 In April 2022, 'SVANidhi se Samriddhi' program was launched in additional 126 cities.

This program provides $\qquad$ -.
Ans $\quad$ 1. insurance cover
2. scholarships to students
3. hospital facilities
4. social security benefits
Q. 5 In which of the following state of India, coniferous trees are found?

Ans

1. Uttarakhand
2. Bihar
3. Uttar Pradesh
4. Madhya Pradesh
Q. 6 Which of the following is natural acid-base indicator?
I. Litmus
II. Turmeric

Ans $X$ 1. Only II
X 2. Only I
X 3. Neither I nor II
4. Both I and II
Q. 7 Which of the following objectives of NAMASTE scheme launched by the centre in August 2022 is correct?
I. Zero fatalities in sanitation work in India
II. Sanitation workers are collectivized into SHGs and are empowered to run sanitation
enterprises
Ans

1. Both I and II
2. Only II
3. Only I
4. Neither I nor II
Q. 8 Who among the following was the first Indian female musician to win the Grammy award?
Ans
X 1. Neeti Mohan
5. Tanvi Shah
( 3. Shweta Pandit
6. Shalmali Kholgade
Q. 9 According to census 2011, number of literates in India is $\qquad$ million.
Ans $\times 1.767 .5$
$\times 2.765 .5$
X 3.769 .5
7. 763.5
Q. 10 Identify the function of plasmid DNA.

Ans

1. None of the given options are correct
2. To form blood cells
3. To confer certain unique phenotypic characters to bacteria
4. To help in the formation of rRNA
Q. 11 When, for the first time, did the Election Commission of India become a multi-member body?
Ans
$\times 1.1995$
X2. 1985

- 3.1989
$\times 4.1994$
Q. 12 Krishna III of Manyakheta belonged to which dynasty?

Ans
X 1. Chera
2. Pala
3. Rashtrakuta

X 4. Gurjara-Pratihara
Q. 13 Who among the following was the first recipient of the State annual award Nishagandhi Puraskaram from the Government of Kerala in 2013?
Ans
X 1. Madhavi Mudgal
2. Shobana C Pillai
3. Uday Shankar
4. Mrinalini Sarabhai
Q. 14 Which of the following dance forms did NOT originate in South India?

Ans
X 1. Kathakali
X 2. Kuchipudi
3. Sattriya

X 4. Bharatanatyam
Q. 15 Who among the following won a Padma Vibhushan award in year 1971?

Ans
X 1. Rajee Narayan
X 2. S Swaminathan
X 3. Devjani Chaliha
4. Uday Shankar
Q. 16 The fundamental duty of a parent or guradian to provide opportunities for education to his child or, as the case may be, ward between the age of 6 and $\qquad$ _.
Ans
$\times 1.20$
2. 14
$\times 3.18$
4. 16
Q. 17 Which of the following is NOT associated with Aryabhata?

Ans $\times 1$. Stated that day and night were caused by the rotation of the earth on its axis.
2. Developed a scientific explanation for eclipses
3. Found a way of calculating the circumference of a circle
4. Spoke about elaborate surgical procedures
Q. 18 The Sahara Desert is located in which of the following continent?

Ans
X 1. South America
2. North America
3. Africa
4. Australia
Q. 19 Which of the following is NOT a part of the institutional structure of rural banking?

Ans

1. Moneylenders

X 2. Regional rural banks
X 3. Commercial banks
X 4. Cooperative and land development banks
Q. 20 Who among the following proposed the term 'ecosystem'?

Ans

1. AG Tansely

X 2. Grinnel
X 3. Lindeman
X 4. Turreson

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| Marked For Review |  |

Q. 21 How many anions surround a sodium ion in a crystal lattice of sodium chloride?

Ans

1. Six
$X$ 2. Eight
X 3. Seven
2. Nine
Q. 22 The Balance of Payment Account of an economy is related to the $\qquad$ .
Ans $\times 1$. agriculture sector
3. external sector
4. government sector
5. private sector
Q. 23 Identify the step that is NOT a part of decomposition.

Ans
X 1. Leaching
2. Humification
3. Catabolism
4. Soil erosion
Q. 24 Who among the following has launched the US Startup SETU programme?

Ans
$X 1$. Amit Shah
X 2. Yogi Adityanath
X 3. Nitin Gadkari
2. Piyush Goyal
Q. 25 Nagabhata was the king of which of the following dynasty?

Ans
X 1. Kakatiya
2. Vardhana
3. Pratihara
4. Reddy

Section: Quantitative Aptitude
Q. 1 Calculate the area of a sector of a circle with radius 10 metres and angle of 90 degrees at the centre.

Ans
$\times 1.79 .3 \mathrm{~m}^{2}$
2. $79.5 \mathrm{~m}^{2}$
3. $78.5 \mathrm{~m}^{2}$
4. $75 \mathrm{~m}^{2}$
Q. 2 In the figure, O is the centre of the circle. Its two chords AB and CD intersect each other at the point $P$ within the circle. If $A B=20 \mathrm{~cm}, \mathrm{~PB}=12 \mathrm{~cm}$ and $\mathrm{CP}=8 \mathrm{~cm}$, then find the measure of PD.


Ans

1. 12 cm
$\times 2.11 \mathrm{~cm}$
$\times 3.22 \mathrm{~cm}$
$\times 4.14 \mathrm{~cm}$
Q. 3 A dealer buys an article listed at ₹ 3,000 and gets successive discounts of $15 \%$ and $15 \%$. He spends ₹ 250 on transportation and sells it at a profit of $20 \%$. Find the selling price of the article.
Ans
$\times 1$. ₹ 3,300
2. ₹ 2,901
× 3. ₹ 3,250
X 4. ₹ 3,200
Q. 4 In a linear race of $1000 \mathrm{~m}, A$ beats $B$ by 50 m or 5 seconds. What is the difference between the speeds (in m/s) of $A$ and $B$ ?

Ans
X 1. $1 \frac{10}{19}$
-2. $\frac{10}{19}$
3. $\frac{9}{19}$
$\times 4 \cdot \frac{9}{10}$
Q. 5 The table given below shows the cost price and selling price of 5 different articles.

| Article | Cost price | Selling price |
| :---: | :---: | :---: |
| A1 | 350 | 450 |
| A2 | 550 | 550 |
| A3 | 450 | 650 |
| A4 | 250 | 550 |
| A5 | 150 | 650 |

What is the ratio of cost price of A1 to the selling price of A4?
Ans
$\times 1.1: 2$
$\times 2.1: 3$
$\times 3.7: 5$
4.7:11
Q. 6 The selling price of 28 items is equal to the cost price of 17 items. What is the percentage of profit or loss?

Ans

1. $39 \frac{2}{7} \%$ loss
2. $39 \frac{2}{7} \%$ profit
3. $33 \frac{2}{7} \%$ profit

X4. $33 \frac{2}{7} \%$ loss
Q. 7 If the price of petrol is increased by $28 \%$, by what percentage should the consumption be decreased by the consumer, if the expenditure on petrol remains unchanged? (Correct to 2 decimal places)
Ans
X 1.12.35\%
2. 21.88\%

X 3. 20.25\%
X4.25.75\%
Q. 8 A sum of money amounts to ₹767 in 3 years, and to ₹ 806 in 4 years on simple interest at $6 \%$ annum. What is the sum?
Ans
X1. ₹600
X 2. ₹560
X 3. ₹675

- 4. ₹650
Q. 9 Study the given pie-chart and answer the question that follows.

The pie-chart represents the spending of a state on various sports during a particular year.


How much percent more is spent on cricket than on tennis(correct up to 2 decimal places)?

Ans

1. $33.33 \%$
2. $32.75 \%$
3. 30.35\%
4. $28.25 \%$
Q. 10 Simplify the following.
$\cot 13^{\circ} \cot 27^{\circ} \cot 45^{\circ} \cot 63^{\circ} \cot 77^{\circ}=?$
Ans
5. 1
6. $\sqrt{3}$
$\times 3.2$
X4. $\sqrt{2}$
Q. 11 The average of eight consecutive odd numbers is 48 . Find the sum of the fifth and seventh numbers.

Ans

1. 102
2. 86

- 3.89
4.90
Q. 12 The sides of a triangle are in the ratio $\frac{1}{3}: \frac{1}{5}: \frac{1}{6}$. If the perimeter is 147 cm , then the length of the smallest side is $\qquad$ -

Ans
X 1.12 cm
$\times 2.25 \mathrm{~cm}$
$\times 3.30 \mathrm{~cm}$
4.35 cm
Q. 13 Solve the following to find its value in terms of trigonometric ratios.
$(\sin A+\cos A)(1-\sin A \cos A)$
Ans

1. $\sin ^{3} A+\cos ^{3} A$
2. $\sin ^{2} \mathrm{~A}-\cos ^{2} \mathrm{~A}$
3. $[\cos A-\sin A]\left[\sin ^{2} A+\cos ^{2} A\right]$

X4. $\sin ^{3} \mathrm{~A}-\cos ^{3} \mathrm{~A}$
Q. 14 The ratio of the outer and the inner circumference of a circular path is $5: 4$. If path is 50 metres wide, then what is the radius of the inner circle?

Ans
$\times 1.250$ metres
2. 300 metres
3. 200 metres
4. 210 metres
Q. 15 If $2 a+3 b=10$ and $a b=3$, then find the value of $4 a^{2}+9 b^{2}$.

Ans
$\times 1.60$
$\times 2.62$

- 3.64
$\times 4.66$
Q. 16 Study the following table and answer the question that follows.

| School <br> Name | Total number of <br> Student enrolled | Percentage of students <br> who opted for statistics |
| :--- | :--- | :--- |
| A | 450 | 20 |
| B | 200 | 18 |
| C | 500 | 12 |
| D | 400 | 15 |

What is the average number of students who opted for other than statistics subject in school A and D?
Ans
$\times 1.7340$
$\times 2.360$
$\times 3.355$
4. 350
Q. 17 If $(4 x-7 y)=11$ and $x y=8$, what is the value of $16 x^{2}+49 y^{2}$, given that $x$ and $y$ are positive numbers?

Ans $\times 1.596$
$\times 2.484$
3.569
$\times 4.448$
Q. 18 What is the smallest perfect square which is completely divisible by each of 16,18 and 36?

Ans
-1. 144
$\times 2.81$
X 3.196
$\times 4.169$
Q. 19

If $\sin \theta=\frac{1}{2}$, then the value of $\left(3 \cos \theta-4 \cos ^{3} \theta\right)$ is:
Ans

1. 0
$\times 2.1$
$\times 3.2$
X4. -1
Q. 20 Find the mean proportion of $\frac{a^{3}+b^{3}}{a-b}$ and $\frac{a^{2}-b^{2}}{a^{2}-a b+b^{2}}$.

Ans
$\times 1.1$
2. $a+b$
3. $\frac{a+b}{a-b}$
4. $\sqrt{a+b}$
Q. 21 Numbers divisible by 9 between 43 and 481 are:

Ans
$\times 1.51$

- 2.49
$\times 3.48$
$\times 4.50$
Q. 22 A and B can complete a piece of work in 10 and 16 days respectively. A begins to do the work and they work alternatively one at a time for one day each. The whole work will be completed in :
Ans
-1. $12 \frac{1}{4}$ days
$\times 2.13 \frac{1}{4}$ days
X 3. $15 \frac{1}{4}$ days
X4. $14 \frac{1}{4}$ days
Q. 23 What is the value of

$$
\left(k-\frac{1}{k}\right)\left(k^{2}+\frac{1}{k^{2}}\right)\left(k^{4}+\frac{1}{k^{4}}\right)\left(k^{8}+\frac{1}{k^{8}}\right)\left(k^{16}+\frac{1}{k^{16}}\right)\left(k^{32}+\frac{1}{k^{32}}\right) ?
$$

Ans

1. $\frac{\mathrm{k}^{64}-\frac{1}{\mathrm{k}^{64}}}{\mathrm{k}+\frac{1}{\mathrm{k}}}$
$\times 2 . \frac{\mathrm{k}^{32}-\frac{1}{\mathrm{k}^{32}}}{\mathrm{k}-\frac{1}{\mathrm{k}}}$
$\times 3 \cdot \frac{\mathrm{k}^{32}-\frac{1}{\mathrm{k}^{32}}}{\mathrm{k}+\frac{1}{\mathrm{k}}}$
$\times 4 . \frac{\mathrm{k}^{32}+\frac{1}{\mathrm{k}^{32}}}{\mathrm{k}+\frac{1}{\mathrm{k}}}$
Q. 24 The following pie charts show the number of start-ups started in various sectors since 2016 and the number of successful start-ups in those sectors respectively.


Out of all the start-ups that started since 2016, what percentage (approx. up to two decimal places) started in travel sector?
Ans
X 1. $13.12 \%$
X2. $12.19 \%$

- 3. $12.91 \%$
$\times 4.13 .21 \%$
Q. 25 If the volume of a sphere is $179 \frac{2}{3} \mathrm{~m}^{3}$, what is its surface area?

Ans
X1. $221 \mathrm{~m}^{2}$
2. $154 \mathrm{~m}^{2}$
3. $144 \mathrm{~m}^{2}$
4. $151 \mathrm{~m}^{2}$

Section : English Comprehension
Q. 1 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

When the train pulled in / at the station, it take / Joseph some time / to get off.
Ans $\times 1$. When the train pulled in
2. at the station, it take

X 3. Joseph some time
X 4. to get off
Q. 2 Select the INCORRECTLY spelt word.

Ans

1. Thyriod
2. Disaster
3. System

X 4. Distance
Q. 3 Select the correct passive form of the given sentence. The government will build an amphitheatre.
Ans
X 1. An amphitheatre will be build by the government.
2. An amphitheatre will be built by the government.

X 3. An amphitheatre would be built by the government.
4. An amphitheatre be build by the government.
Q. 4 Select the most appropriate option that can substitute the underlined segment in the given sentence.

She acted as if she is the one who was hurt.
Ans
$\times 1$. as if she has been
X 2. as if she will be
X 3. as if she would
4. as if she was
Q. 5 Select the most appropriate meaning of the given idiom.

A rolling stone gathers no moss
Ans $\quad$ 1. A person who settles for a short time and runs from place to place, enjoying his freedom
X 2. A person who does not settle anywhere for a short time, and is always searching for
gold
X 3. A person who settles for a long time and leads a boring and useless life
4. A person who does not settle in one place for a long time, does not gain wealth,
name or fame
Q. 6 Choose the most appropriate meaning of the underlined word in the given sentence.

The students have decided to conspire to steal the test papers.
Ans
X 1. Enact
X 2. Moderate
3. Plot

X4.Assist
Q. 7 Select the option that can be used as a one-word substitute for the given group of words.
An eccentric manner of living
Ans

1. Bohemian

X 2. Numismatist
X 3. Gourmet
4. Misanthrope
Q. 8 Select the most appropriate ANTONYM of the underlined word.

One must aim to develop intrinsic motivation within learners for better retention of knowledge.
Ans
X 1. Elemental
X 2. Introjected
3. Extrinsic

X 4. Inherent
Q. 9 Select the option that expresses the given sentence in passive voice.

Don't pluck the flowers.
Ans

1. The flowers should not be pluck.
2. You are requested not to plucked the flowers.
3. I am requesting you to pluck the flowers.
4. Let the flowers not be plucked.
Q. 10 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. $P$. The demand for fish has increased.
Q. However, adequate fish is not available in the lake.
$R$. This is mainly because the migratory fish from Chindwin-Irrawaddy river system to
Manipur river system have declined steadily after the barrage came up.
S. At least two lakh people are directly dependent on the lake for fishing.

Ans

1. SPQR
2. RPSQ
3. QRPS
4. RQSP
Q. 11 Select the most appropriate ANTONYM of the word identify from the given sentence: My pet dog can classify and identify our family friends easily and doesn't overlook anonymous and unknown ones
Ans
X 1. anonymous
5. spot
6. classify
7. overlook
Q. 12 Rearrange the parts of the sentence in correct order.

One element that
P. is timing, in particular ensuring that
$Q$. is essential to navigating deep space
$R$. the time on board spacecraft is synchronised
$S$. with the time on the ground
Ans
< 1. PRQS
X 2. PSQR
X 3.RSPQ
4. QPRS
Q. 13 Select the most appropriate collocation to fill in the blank.

We came to $\qquad$ as we were passing through.
Ans
X 1. give a hand
2. say hello
3. slow in
4. take a look
Q. 14 Select the INCORRECTLY spelt word in the following sentence.

Apparently, he seems to be an amature person, but I know that he is a disciplined and committed person when it comes to doing something seriously.
Ans

1. amature
2. apparently
3. committed
4. disciplined
Q. 15 Select the most appropriate ANTONYM of the underlined word in the given sentence.

The money she offered him was insufficient to persuade him to sell.
Ans

1. Clade
2. Propagandize
3. Discourage
4. Influence
Q. 16 Select the sentence with the appropriate use of preposition.

Ans $\times 1$. Children are fond to sweets.
X 2. Children are fond off sweets
X 3. Children are fond with sweets.
4. Children are fond of sweets.
Q. 17 Select the most appropriate option to fill in the blank.

The great director Satyajit Ray after receiving the Honorary Academic Award from Audrey Hepburn $\qquad$ in his Kolkata home.

Ans

1. breathed his last
2. nipped in the bud
3. kept the ball rolling
4. dug the grave
Q. 18 Fill in the blank by selecting the appropriate word from the given options that would complete the collocation.

The judge directed the advocate general to $\qquad$ an enquiry on the case.
Ans
X 1. make
X 2. produce
3. hold

X 4. get
Q. 19 Select the correct indirect form of the given sentence.
"We had opened the lock." they told me.
Ans
X 1. They said that we had opened the lock.
Х 2. They said to me that they have opened the lock.
3. They told me that they had opened the lock.
4. They says that we had opened the lock.
Q. 20 Select the option that can be used as a one-word substitute for the given group of words.

The property left to someone by a will
Ans
X 1. Ledger
2. Legacy
$X$ 3. Legend
X 4. Lexical

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

A new world research shows that the French (1) $\qquad$ large amounts of cheese and butter.
Therefore, they have low levels of heart disease. The research (2) $\qquad$ that animal fat is good for human body and helps in reducing the risks of heart attack. This study was (3)
$\qquad$ in 2018 in 21 low and middle income countries. However, it (4) $\qquad$ that eating moderately is the (5) $\qquad$ key in this regard.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. consume

X 2. drink
X 3. gobble
4. take

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

A new world research shows that the French (1) $\qquad$ large amounts of cheese and butter.
Therefore, they have low levels of heart disease. The research (2) $\qquad$ that animal fat is good for human body and helps in reducing the risks of heart attack. This study was (3) $\ldots \quad$ in 2018 in 21 low and middle income countries. However, it (4) $\qquad$ that eating moderately is the (5) $\qquad$ key in this regard.

SubQuestion No : 22
Select the most appropriate option to fill in blank number 2.
X 1. accepts
X 2. credits
$X$ 3. trusts
4. believes

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

A new world research shows that the French (1) $\qquad$ large amounts of cheese and butter. Therefore, they have low levels of heart disease. The research (2) $\qquad$ that animal fat is good for human body and helps in reducing the risks of heart attack. This study was (3) $\ldots \quad$ in 2018 in 21 low and middle income countries. However, it (4) $\qquad$ that eating
moderately is the (5) $\qquad$ key in this regard.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans $\times 1$. directed
X 2. managed
X 3. supervised
4. conducted

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

A new world research shows that the French (1) $\qquad$ large amounts of cheese and butter.
Therefore, they have low levels of heart disease. The research (2) $\qquad$ that animal fat is good for human body and helps in reducing the risks of heart attack. This study was (3) in 2018 in 21 low and middle income countries. However, it (4) $\qquad$ that eating
moderately is the (5) $\qquad$ key in this regard.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. closed
2. concluded
$\times$ 3. finished
X 4. stopped

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

A new world research shows that the French (1) $\qquad$ large amounts of cheese and butter.
Therefore, they have low levels of heart disease. The research (2) $\qquad$ that animal fat is good for human body and helps in reducing the risks of heart attack. This study was (3)
$\qquad$ in 2018 in 21 low and middle income countries. However, it (4) $\qquad$ that eating
moderately is the (5) $\qquad$ key in this regard.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans

- 1. crucial

X 2. diligent
X 3. principle
4. eminent

Combined Graduate Level Examination Tier I 2022

| Roll Number | Www．HaryanaJobs．in |
| :--- | :--- |
| Candidate Name | Www．HaryanaJobs．in |
| Venue Name | ION Digital Zone iDZ Naino Ka Bas |
| Exam Date | 06／12／2022 |
| Exam Time | $5: 15$ PM－6：15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section：General Intelligence and Reasoning
Q． 1 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown．
Ajr $\left.79 \mathrm{~b}\right|_{N} ^{M}$
Ans
$x$ 1．berriA
，2．deryíA
x 3．d 6「rjeA
×4．qe「」iA

Q． 2 Select the correct combination of mathematical signs to sequentially replace the＊ signs and to balance the given equation．
25 ＊ 2 ＊ 220 ＊ 11 ＊ 43
Ans
X1．,,$+- \times,=$
$\times 2 .+,-, \div,=$
Х3．＋，＋，$\div=$
4．,,$-+ \div,=$

Q． 3 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number．
7 ： 13 ：： 16 ： 31 ：： 46 ：？
Ans
$\times 1.81$
$\times 2.83$
－ 3.91
$\times 4.97$
Q. 4 Select the figure that will come next in the following figure series.


Ans

Q. 5 Select the correct combination of mathematical signs to sequentially replace the \# signs and to balance the given equation.
[\{(44 \# 38) \# (2 \# 5) \} \# (4 \# 2)] \# 5 \# 10
Ans
X $1 . \times, \div, \times, \times,-,+,=$
X2. $\times,-,+, \times, \div, \times,=$
X $3 .-,+, \times, \times, \div, \times,=$
4.,,$-+ \times, \div, \times, \times,=$
Q. 6 If $L \times M$ means that $L$ is the mother of $M, L+M$ means that $L$ is the father of $M, L \div M$ means that $L$ is the sister of $M$, then which of the following expression shows that $P$ is the father of $\mathbf{R}$ ?
Ans

1. $P+Q \div R$

X2. $\mathrm{P} \div \mathrm{R}+\mathrm{Q}$
X $3 . Q+P \div R$
4. $P+Q \times R$
Q. $7 \quad A$ - $B$ means ' $A$ is the mother of $B$ '
$A$ * $B$ means ' $A$ is the sister of $B$ '
$A \% B$ means ' $A$ is the husband of $B$ '
$A \$ B$ means ' $A$ is the son of $B$ '
If $P-Q-R$ * $S \$ T$, then how is $P$ related to $T$ ?
Ans
X 1. Mother
2. Mother-in-law

X 3. Sister
4. Sister-in-law
Q. 8

Select the option figure in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 3$.

$\times 4$.

Q. 9 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Plants : Botanist :: Animals : ?
Ans
$X 1$. Chemists
X 2. Geologists
X 3. Archaeologists
4. Zoologists
Q. 10 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(7, 4, 56)
$(8,3,48)$
Ans
X 1. $(90,3,400)$
X 2. $(87,4,128)$
X $3 .(96,42,12)$
4. $(9,10,180)$
Q. 11 Which letter cluster will replace the question mark (?) to complete the given series? ACFD, CFHG, ?, GLLM, IONP

Ans
X 1. EIJK
2. EIJJ

X 3. FIJJ
X 4. EJJK
Q. 12 After arranging the given words according to dictionary order, which word will come at 'Third' position?

1. Chocolate
2. Chocoholic
3. Chocolaty
4. Chocolatier
5. Chock

Ans

1. Chocolate
2. Chock
3. Chocolatier
4. Chocoholic
Q. 13 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 3 '.


Figure 1


Figure 2


Figure 3

Ans
<1.1
$\times 2.2$
จ 3.5
$\times 4.4$
Q. 14 In the following question, select the missing number from the given series.

5103, 1701, 567, ?, 63, 21
Ans
$\times 1.265$
$\times 2.169$

- 3.189
$\times 4.170$
Q. 15 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

2.

$\times 3$.

$\times 4$

Q. 16 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be
performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. $14-193$

X 2. 15-220
X 3.16-251
X4.17-284
Q. 17 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
School : Students :: Hospital : ?
Ans

- 1. Doctors
< 2. Nurses

3. Patients

X 4. Diseases
Q. 18 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All $R$ are $P$.
II. All $R$ are $Q$.

Conclusion:
I. No $P$ is $Q$.
II. No $R$ is $P$.

Ans

1. Neither conclusion follows
2. Only conclusion II follows

X 3. Both conclusions I and II follows
4. Only conclusion I follows
Q. 19 In a certain code language, 'TECHNOLOGY' is written as 'NHCETOLOGY', 'GENERATION' is written as 'RENEGATION'. How will 'APOCALYPSE' be written in that language?
Ans
X 1.AOCPALYPSE
X 2. ACPOALYPSE
X 3.ACOAPLYPSE
4. ACOPALYPSE
Q. 20 By interchanging the given two signs and numbers which of the following equation will be correct?

+ and -, 7 and 6
Ans

1. $4 \times 7+6-3 \div 1=20$
$2.8 \times 7+5 \div 1-6=17$
X $3.7-6 \times 3+4 \div 1=8$
$4.7 \times 2-6+4 \div 2=13$
Q. 21 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, FVJV, KPQN, PJXF, ?
Ans
X 1. UDQE
X 2. RQTS
2. UDEX

X 4. EQRT
Q. 22 In a certain code language, 'ABROAD' is written as 'DFORDH' and 'ACCESS' is written as 'DGECVW'. How will 'AGENCY' be written in that language?
Ans

1. DKNEFC

X 2. EKNEFC
X 3. DJNEFB
4. DKNEGC
Q. 23 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(9,16,5)$
$(7,9,4)$
Ans $\times 1 .(14,64,7)$
X $2 .(14,100,5)$
3. $(11,36,5)$
4. $(12,66,4)$
Q. 24 Three Statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
Some bottles are towels.
No towel is a pillow.
All bottle sare coats.
Conclusions:
I. Some coats are towels.
II. No coat is a towel.
III. Some bottles are pillows.

Ans
X 1. Only conclusion II follows.
X 2. Both conclusions I and III follows.
X 3. Only either conclusion I or II follows.
4. Only conclusion I follows.
Q. 25 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans

- 1. PRKI

2. JFOQ

X 3. UWFD
X 4. XZCA

Section: General Awareness
Q. 1 The Constitution of India is a sovereign socialist secular democratic republic with a
$\qquad$ system of government.

Ans
X 1. unitary
2. parliamentary
3. monarchical
4. presidential
Q. 2 Ahmadnagar was finally annexed by the Mughals in $\qquad$ -
Ans
X 1.1627
2. 1632
3. 1630
4. 1635
Q. 3 Which of the following major Indian crops requires high temperature (above $25^{\circ} \mathrm{C}$ ) and high humidity?

Ans

1. Gram
2. Peas
3. Rice
4. Wheat
Q. 4 $\qquad$ - time graph shows speed of an object.

Ans
$\times 1$. Velocity
2. Distance

X 3. Displacement
4. Acceleration
Q. 5 Which nutrient is chlorella rich in?

Ans
$X 1$. Roughage
X 2. Carbohydrates
X 3. Fats
4. Protein
Q. 6 Who has become the first woman director general of the Council of Scientific and Industrial Research?
Ans
X 1. Sanjay Verma
X 2. Vinod Aggarwal
3. Nallathamby Kalaiselvi

X 4. Prakash Chand
Q. 7 McMahon line is a line which separates china and which Indian state?

Ans
X 1. Sikkim
X 2. Uttarakhand
3. Arunachal Pradesh

X 4. Jammu and Kashmir
Q. 8 The Paris Indian Society was an Indian nationalist organisation founded in $\qquad$ .
Ans $\times 1.1907$
2. 1905
$\times 3.1909$
X4. 1900
Q. 9 Droupadi Murmu was elected the $\qquad$ President of India.

Ans
X 1.18th
2. 17th
3. 15th
4. 16th
Q. 10 What is the commercial unit of electric energy?

Ans
X 1. Watt-hour
2. Watt per hour
3. Kilowatt hour
4. Kilowatt per hour
Q. 11 In early 1610, who discovered with his newly invented telescope that Jupiter has four moons?

Ans

1. Simon Marius
2. Tycho Brahe
3. Galileo Galilei
4. Johannes Kepler
Q. 12 By which name is the birthday of Lord Krishna famous?

Ans
X 1. Mahashtami
2. Mahanavmi
3. Janmashtami
4. Akshaya Tritiya
Q. 13 Which of the following is NOT a goal for the Green Revolution?

Ans
X 1. Rise in crop productivity
X 2. Use of fertilisers
X 3. Rise in production of food grains
4. Expansion of irrigation
Q. 14 Which of the following metals was used to make weapons and tools in Harappan cities?
Ans
X 1. Silver
X 2. Gold
3. Copper

X 4. Iron
Q. 15 The executive power of the Union is vested in the:

Ans
X 1. Council of Ministers headed by the Prime Minister
X 2. Prime Minister
X 3. Chief Justice of the Supreme Court
4. President
Q. 16 Vempati Chinna Satyam was awarded the Padma Bhushan in 1998. He was a $\qquad$ dancer.
Ans

1. Kuchipudi
2. Kathak

X 3. Manipuri
4. Kathakali
Q. 17 'Do or die' slogan is given by which of the following freedom fighter?

Ans
X 1. Bal Gangadhar Tilak
X 2. Sardar vallabh bhai patel
3. Mahatma Gandhi

X 4. Motilal Nehru
Q. 18 In June 2022, NIPUN scheme was launched for skill training of $\qquad$ .

Ans
$X 1$ 1. farmers
X 2. medical practitioners
X 3. government teachers
4. construction workers
Q. 19 Which of the following folk dance forms is NOT associated with the state of Gujarat?

Ans

1. Hojagiri
2. Dandiya
3. Bhavai
4. Garba
Q. 20 Who was the first to accurately describe the rings of Saturn as a disc around the planet in 1655?
Ans
X 1. Hideki Yukawa
5. Galileo Galilei
6. Christiaan Huygens
< 4. Giovanni Cassini
Q. 21 October and November months in India comes under which among the following seasons?

Ans
X 1. Winter
$\times 2$. Summer
X 3. Rainy

- 4. Autumn
Q. 22 Which of the following countries hosted the first edition of the Summer Youth Olympic Games in 2010?

Ans
X 1. China
2. Singapore
3. Argentina
4. Senegal
Q. 23 The height of stumps in cricket is $\qquad$ -.
Ans

1. 28 inches

X 2. 20 inches
X 3.25 inches
4. 22 inches
Q. 24 Which of the following is a feature of Self-Help group?

Ans

1. The group takes care of the debt recovery.
2. There is a requirement of collateral.
3. These groups are classified as commercial banks.
4. The interest rates are generally high.
Q. 25 Rukmani Devi Arundale was a famous dancer of which Indian classical dance form?

Ans

1. Bharatanatyam
2. Kathak
3. Mohiniyattam
4. Kathakali

Section : Quantitative Aptitude
Q. 1 If $\sec \theta-2 \cos \theta=\frac{7}{2}$, where $\theta$ is a positive acute angle, then the value of $\sec \theta$ is:

Ans
1.6
2. 8
3.5
4. 4
Q. 2 The sum of two numbers is 18 and their HCF and LCM are 3 and 54 respectively. What will be the sum of their reciprocals?

Ans

1. $\frac{1}{7}$
2. $\frac{1}{11}$
3. $\frac{1}{6}$
$\frac{1}{9}$
Q. 3 Rohan scored twice as many marks in English as he did in Science. His total marks in English, Science and Mathematics are 126. If the ratio of his marks in English and Mathematics is 2 : 3, his marks in English are:

Ans
$\times 1.63$
$\times 2.20$
3. 21

- 4.42
Q. 4 The diagonal of the square is $8 \sqrt{ } \mathbf{~} \mathrm{~cm}$. Find the diagonal of another square whose area is triple that of the first square.

Ans

1. $8 \sqrt{5} \mathrm{~cm}$
2. $8 \sqrt{3} \mathrm{~cm}$

X $3.8 \sqrt{2} \mathrm{~cm}$

- $4.8 \sqrt{6} \mathrm{~cm}$
Q. 5 If $x+\frac{1}{x}=2$, then the value of $x^{57}+\frac{1}{x^{57}}$ is:

Ans
$\times 1.1$
X 2. -2
$\times 3.0$

- 4.2
Q. 6 Find the value of $\tan 3 \theta$ if $\sec 3 \theta=\operatorname{cosec}\left(4 \theta-15^{\circ}\right)$.

Ans
$\times 1 \cdot \frac{1}{\sqrt{3}}$
$\times 2 . \sqrt{3}$
X3. -1
4. 1
Q. 7 Three-fourth of a consignment was sold at a profit of $8 \%$ and the rest at a loss of $4 \%$. If there was an overall profit of Rs.600, then find the value of the consignment.
Ans
X 1.Rs.15,000
X 2. Rs.6,000
X 3. Rs.18,000
4. Rs.12,000
Q. 8 The number of parallel tangents of a circle with a given tangent is:

Ans

1. 1
$\times 2.2$
$\times 3.3$
$\times 4.4$
Q. 9 A man loses $20 \%$ of his money and after spending $85 \%$ of the remainder, he is left with Rs.120. How much did he have at first?
Ans
X 1.Rs.1,200
2. Rs.1,000

X 3.Rs. 800
X4.Rs. 500
Q. 10 If $m x^{m}-n x^{n}=0$, then what is the value of $\frac{1}{x^{m}+x^{n}}+\frac{1}{x^{m}-x^{n}}$ terms of $x^{n}$ is:

Where $\mathrm{x}, \mathrm{m}, \mathrm{n}$ are $>0$
Ans
$x_{1} \cdot 2 m n /\left(x^{n}\left(n^{2}+m^{2}\right)\right.$
x. $2 m n /\left(x^{n}\left(m^{2}-n^{2}\right)\right.$
x 3. $2 m n /\left(x^{n}\left(m^{2}+n^{2}\right)\right.$
4. $2 m n /\left(x^{n}\left(n^{2}-m^{2}\right)\right.$
Q. 11 What should be subtracted from 246837 to make it divisible by 13 ?

Ans
$\times 1.4$
$\times 2.5$
$\times 3.3$

- 4.6
Q. $12 \Delta P Q R$ is an isosceles triangle and $P Q=P R=2 a$ unit, $Q R=a$ unit. Draw $P X \perp Q R$, and find the length of $P X$.

Ans

1. $\sqrt{5} a$
$\times 2 . \frac{\sqrt{5} a}{2}$3. $\frac{\sqrt{10} a}{2}$
2. $\frac{\sqrt{15} a}{2}$
Q. 13 The following pie chart shows the number of workers of different categories A, B, C, D, E, F, G and H in a factory in 1995.


What is the central angle (angular value) for category B of the pie chart?
Ans
$\times 1.55^{\circ}$
2. $54^{\circ}$
3. $57^{\circ}$
4. $56^{\circ}$
Q. 14 If, for a non-zero $x, 5 x^{2}+7 x+5=0$, then the value of $x^{3}+\frac{1}{x^{3}}$ is:

Ans

1. $\frac{496}{125}$
×2. $\frac{532}{343}$
$\times$ 3. $\frac{125}{532}$
2. $\frac{182}{125}$
Q. 15 A person lent Rs. 23000 to B for 3 years and Rs. 19000 to C for 4 years on simple interest at the same rate of interest and received Rs. 3625 in all from both of them as interest. What is the annual rate of interest?
Ans
X 1.1 .5 percent
X 2.3 percent
3. 2.5 percent

X 4.4 percent
Q. 16 The radius of a hemisphere is 6.3 cm . What will be its volume?

Ans
$\times 1.572 .80 \mathrm{~cm}^{3}$
$2.643 .50 \mathrm{~cm}^{3}$
3. $523.90 \mathrm{~cm}^{3}$
$4.353 .38 \mathrm{~cm}^{3}$
Q. $17 \triangle A B C \sim \triangle D E F$ such that $A B=9.1 \mathrm{~cm}$ and $D E=6.5 \mathrm{~cm}$. If the perimeter of $\triangle D E F=25 \mathrm{~cm}$, then the perimeter of $\triangle A B C$ is:
Ans
$\times 1.40 \mathrm{~cm}$
$\times 2.30 \mathrm{~cm}$
か. 35 cm
$\times 4.45 \mathrm{~cm}$
Q. 181 man and 4 women can complete a work in $\frac{65}{4}$ days, while 3 men and 4 women can complete it in $\frac{13}{2}$ days. In how many days will 13 women complete the same?

Ans
-1. 20
2. 16
3. 14
4. 18
Q. 19 The table given below shows the number of calculator sold by five shopkeepers.

| Shopkeepers | Calculator |
| :---: | :---: |
| S1 | 40 |
| S2 | 60 |
| S3 | 55 |
| S4 | 35 |
| S5 | 80 |

Number of calculator sold by S 5 is what percent of the number of calculator sold by S1?
Ans
X 1.100 percent
< 2. 150 percent
3. 200 percent
4. 50 percent
Q. 20 What is the value of $\cos ^{2} 15^{\circ} ?$

Ans
X $1 .(2+\sqrt{3})$
2. $\frac{(2+\sqrt{3})}{4}$
3. $\frac{(2+\sqrt{3})}{2}$
x4. $\frac{(1+\sqrt{3})}{2}$
Q. 21 From point $H$, at $6: 30 \mathrm{pm}$, a train starts moving towards point $K$ at the speed of 90 km/hr. Another train starts moving from point K at 7:30 p.m. towards point H at the speed of $72 \mathrm{~km} / \mathrm{hr}$. Both the train meet at 11:30 p.m. at point J. What is the ratio of the distance HJ and KJ?
Ans 1. $25: 16$
$\times 2.5: 16$
$\times 3.36: 25$
$\times 4.31: 19$
Q. 22 In a race, there are 4 members in a team. Each member has to cover 5 km one after another. If the total time taken is 30 minutes, then what would have been the average speed?

Ans
$\times 1.50 \frac{\mathrm{~km}}{\mathrm{hr}}$
2. $40 \frac{\mathrm{~km}}{\mathrm{hr}}$
$\times 3.50 \frac{\mathrm{~m}}{\mathrm{sec}}$
X4. $40 \frac{\mathrm{~m}}{\mathrm{sec}}$
Q.23 The import and export of a country (in lakhs rupees) during a certain period of time is given in the following bar-graph. Read the bar-graph carefully and answer the following question.


What is the percentage increment in import during the year 2016-17 as compared to the year 2015-16? (correct up to two decimals)

Ans
$\times 1.60 .62 \%$
2. $62.60 \%$

X 3.38.50\%
X 4.65.32\%
Q. 24 Rohan sold goods to Ankith worth Rs.55,000 at 15\% trade discount. How much money did Ankith pay to Rohan?
Ans

1. Rs.8,250
2. Rs.12,550
3. Rs.22,550
4. Rs.46,750
Q. 25 The table given below shows the marked price and value of discount of 7 articles.

| Articles | Marked price | Discount |
| :---: | :---: | :---: |
| D | 1100 | 500 |
| E | 700 | 200 |
| F | 900 | 500 |
| G | 600 | 400 |
| H | 400 | 300 |
| I | 500 | 200 |
| J | 1000 | 200 |

What is the average marked price of all the articles?
Ans
X 1.824 .12
$\times 2.814 .12$

- 3.742 .85
-4.704.15

[^3]Q. 1 Parts of the following sentence have been given as options. Select the option that contains a grammatical error. If you don't find any error, mark 'No error' as your answer.

I am having trouble / deciding in / a gift for them. / no error
Ans
X 1. a gift for them.
X 2. No error
X 3.I am having trouble
4. deciding in
Q. 2 Select the option that can be used as a one-word substitute for the given group of words.

A small island
Ans

1. Islet

X 2. Lagoon
3. Closet
4. Isthmus
Q. 3 Select the option that expresses the given sentence in passive voice.

The company sold the newly introduced car to the highest bidder.
Ans

1. The newly introduced car was sold to the highest bidder by the company.
2. The company sold the newly introduced car to the highest bidder.
3. The newly introduced car has sold to the highest bidder by the company.
4. The newly introduced car sold to the highest bidder by the company.
Q. 4 Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.

The young boy was born with a silver spoon in his mouth.
Ans
X 1. born with a spoon stuck in his mouth
2. born to riches and luxury

X 3. born with a spoon that was not of gold
4. born to not so rich parents
Q. 5 Select the most appropriate option to fill in the blank and complete the collocation.

Always be in $\qquad$ with your near and dear ones as life is uncertain and fragile.
Ans

1. touch
2. relation
3. communication
4. connection
Q. 6 Select the correct direct form of the given sentence.

Professor told me that I could not rescue myself from that bait.
Ans $\quad$ 1. Professor says to me, "You cannot rescue yourself from this bait."
2. Professor said to me, "You have not rescued yourself from this bait."
3. Professor said to us, "You cannot rescue yourself from this bait."
4. Professor said to me, "You cannot rescue yourself from this bait."
Q. 7 Select the most appropriate synonym of the given word.

Fatigue
Ans

1. Tiredness
2. Feebleness
3. Loaf
4. Effort
Q. 8 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

I am working hard in order to earn a decent living.
Ans
X 1. buying a decent living
X 2. earning a better living
X 3. purchase a reputed life
4. No substitution
Q. 9 Select the most appropriate idiom that can substitute the italicised words in the given sentence.

The world needs a global leader who can hold out a gesture of peace
Ans
X 1. mother wit
X 2. halcyon days
X 3. a grass widow
4. an olive branch
Q. 10 Select the most appropriate ANTONYM of the word leisure from the given sentence: After my working hours, I use my leisure time to take care of my flower garden, dig my restricted land, sow seeds and water the plants for proper growth and development.

Ans
X 1. growth
2. working
3. restricted
4. development
Q. 11 Select the INCORRECTLY spelt word in the following sentence.

Rather than being aggressive, you should be accomodative, magnanimous and benevolent in nature.

Ans

1. accomodative
2. magnanimous
3. aggressive
4. benevolent
Q. 12 Select the option that can be used as a one-word substitute for the given group of words.

A group of stars having a particular shape
Ans

1. Constellation
2. Planet
3. Orbit
4. Galaxy
Q. 13 Select the option that can be used as a one-word substitute for the given group of words.

A huge building with a spacious area to house aircrafts.
Ans
X 1. Airport
$X$ 2. Hanger
2. Hangar
$\times 4$. House
Q. 14 Select the option that expresses the given sentence in passive voice.

Did Rani call you?
Ans

1. Did you called by Rani?

X 2. Was you called by Rani?
3. Were you called by Rani?
4. Are you called by Rani?
Q. 15 Rearrange the parts of the sentence in correct order.

The decision not
P. to include any kind of wealth or
Q. crisis, has proven controversial
R. income tax, which would be the fairer option
S. for solving the social care funding

Ans
X 1. SQPR
2. PRSQ

X 3.RSPQ

- 4. QPRS
Q. 16 Select the most appropriate synonym of the given word. Belief

Ans

1. Faith
2. Promise
3. System
4. Religion
Q. 17 Select the sentence which does NOT have a spelling error.

Ans $\quad$ 1. The art and science of designing buildings is called architecchure.
2. The art and science of designing buildings is called architecture.

X 3. The art and science of designing buildings is called archtiecture.
X 4. The art and science of designing buildings is called architectrue.
Q. 18 Select the most appropriate collocation to substitute the underlined word in the given sentence.

We congratulated him at his new job. He was delighted.
Ans $\times$ 1. congratulate him up
2. congratulated him on
3. congratulate him with
4. congratulate him along
Q. 19 Select the most appropriate synonym of the given word.

Inherent
Ans
X 1. Increase
X 2. Superficial
2. Inborn
$\times 4$. Conclusion
Q. 20 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Both Reeta and Ronika / has won / the dance competition / this year.
Ans
$X$ 1. the dance competition
X 2. this year.
X 3. Both Reeta and Ronika
4. has won

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Human migration may be traced all the way back to the (1) $\qquad$ of time, and humans have been on the move ever since. Climate change, war and displacement, economic considerations, living conditions, family and clan (2) $\qquad$ and, more recently, educational possibilities are all reasons for migration. Because there are several reasons for migration, migration patterns are (3) $\qquad$ . Potential migrants will not only (4) whether or not to migrate, but also where they will go. Individuals with (5) $\qquad$ observed and unobserved features will make diverse decisions and self-select into specific areas.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. glimpse
X 2. ahead
3. dawn

X 4. break

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Human migration may be traced all the way back to the (1) $\qquad$ of time, and humans have been on the move ever since. Climate change, war and displacement, economic considerations, living conditions, family and clan (2) $\qquad$ , and, more recently, educational possibilities are all reasons for migration. Because there are several reasons for migration, migration patterns are (3) $\qquad$ Potential migrants will not only (4)
whether or not to migrate, but also where they will go. Individuals with (5) $\qquad$ observed and unobserved features will make diverse decisions and self-select into specific areas.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. joins
2. ties
$X$ 3. chains
$\times 4$. fights

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Human migration may be traced all the way back to the (1) $\qquad$ of time, and humans have been on the move ever since. Climate change, war and displacement, economic considerations, living conditions, family and clan (2) $\qquad$ , and, more recently, educational possibilities are all reasons for migration. Because there are several reasons for migration, migration patterns are (3) $\qquad$ Potential migrants will not only (4) whether or not to migrate, but also where they will go. Individuals with (5) $\qquad$ observed and unobserved features will make diverse decisions and self-select into specific areas.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
$\times 1$. assorted
$X$ 2. uniform
3. diverse

X 4. constant

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Human migration may be traced all the way back to the (1) $\qquad$ of time, and humans have been on the move ever since. Climate change, war and displacement, economic considerations, living conditions, family and clan (2) $\qquad$ and, more recently, educational possibilities are all reasons for migration. Because there are several reasons for migration, migration patterns are (3) $\qquad$ Potential migrants will not only (4)
whether or not to migrate, but also where they will go. Individuals with (5) $\qquad$ observed and unobserved features will make diverse decisions and self-select into specific areas.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. settle
2. determine

X 3. certify
$\times 4$. induce

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Human migration may be traced all the way back to the (1) $\qquad$ of time, and humans have been on the move ever since. Climate change, war and displacement, economic considerations, living conditions, family and clan (2) $\qquad$ , and, more recently,
educational possibilities are all reasons for migration. Because there are several reasons for migration, migration patterns are (3) $\qquad$ Potential migrants will not only (4) whether or not to migrate, but also where they will go. Individuals with (5) $\qquad$ observed and unobserved features will make diverse decisions and self-select into specific areas.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. considering
2. varying

X 3. convincing
X 4. experiencing

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ 3 Metoda |
| Exam Date | 06/12/2022 |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(2,8,36)$
$(4,9,25)$
Ans
X 1. $(14,18,9)$
2. $(13,20,49)$

X 3. $(21,15,35)$
X 4. $(12,14,26)$
Q. 2 Which of the following letter-clusters will replace the question mark (?) in the given series?
MU, NE, PX, QF, SA, TG, ?
Ans
X 1. UC
X 2. VE
2. VD

X 4. VC
Q. 3 In a certain code language, 'PLANNED' is written as 'RNCNPGF' and 'PROMOTE' is written as 'RTQMQVG'. How will 'IMPROVE' be written in that language?
Ans

1. KORTQXG
2. KORRQXG

X 3.KOQRQXG
4. KORTOXG
Q. 4 In a certain code language, 'BELL' is coded as '111141' and 'HEAR' is coded as '172647'. How will 'MIKE' be coded in that language?
Ans $\times 1.410813$
$\times 2.410811$
2. 410812
$\times 4.410612$
Q. 5 Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.


Ans

$\times 2$.

$\times 3$.


$\times 4$.

Q. 6 By interchanging the given two signs which of the following equation will be not correct?
$x$ and -
Ans

1. $15+5 \div 1-9 \times 4=70$

X2. $5-6 \times 3+16 \div 4=31$
X $3.11+6 \times 3-8 \div 2=5$
X $4.15-4 \times 3+6 \div 1=63$
Q. 7 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Police : Protection
Ans

1. Minister: Governance

X 2. Thief: Jail
X 3. King: Kingdom
X 4. Teacher: Class
Q. 8 Select the figure that will come next in the following figure series.


Ans
$\times 1$.

$\times 2$.

$\times 3$.

$\checkmark 4$.

Q. 9 Which of the following numbers will replace the question mark (?) in the given series? $67,78,71,82,75,86, ?$
Ans
$\times 1.97$
$\times 2.92$
$\times 3.84$

- 4.79
Q. 10 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
LEISURE : USIELER :: INTENSE : NETNIES :: EXCITED : ?
Ans
X 1. CTEDEXI

2. TICXEDE
3. EXEDTCI
4. XEDETCI
Q. 11

Select the correct mirror image of the given combination when the mirror is placed at 'MN' as shown below. M

M P Q R B K Z e 4

Ans




* 4 эऽКЯЯQb M
Q. 12 After arranging the given words according to dictionary order, which word will come at
'Third' position?

1. Series
2. Serious
3. Serein
4. Serial
5. Serried

Ans

1. Series
$\times 2$. Serein
X 3. Serial
2. Serious
Q. 13 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. SXHP
3. UZFR
4. XCCU
5. VCDR
Q. 14 A \& $B$ means ' $A$ is the son of $B$ '
$A$ \# $B$ means ' $A$ is the sister of $B$ ' $A$ @ $B$ means ' $A$ is the brother of $B$ ' $A \% B$ means ' $A$ is the father of $B$ '
$A-B$ means ' $A$ is the daughter of $B$ '
$A$ * $B$ means ' $A$ is the wife of $B$ '
If C \# D @ $E \% Z \& L \# M-N$ * $P$, then how is $E$ related to $L$ ?
Ans
6. Husband
7. Son
8. Father
9. Son-in-law
Q. 15 If $A-B$ means that $A$ is the brother of $B, A+B$ means that $A$ is the sister of $B, A \times B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the brother of $\mathbf{R}$ ?

Ans

$$
\text { 1. } P-Q+R
$$

2. $P+Q-R$
3. $P \times Q+R$
4. $P-Q \times R$
Q. 16 Four different positions of the same dice are shown, the six faces of which are numbered 1 to 6 . Select the number that will be on the face opposite to the one showing ' 4 '.


Ans
$\times 2.2$

- 3.3

4. 5
Q. 17 Select the correct combination of mathematical signs to replace the * signs and balance the given equation.
5 * 15 * 320 * 2 * $45=190$
Ans
⒈,$+ \div, \times,-$
5. $\times,+, \div,-$
3.,$+ \times, \div,-$

X 4. $\times, \div,-,+$
Q. 18 Select the set in which the numbers are related in the same way as are the numbers of the following sets:
$(7,11,72)$
$(5,8,39)$
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
Ans

1. $(4,7,33)$

X 2. $(2,3,1)$
X $3 .(5,2,23)$
X 4. $(5,6,13)$
Q. 19 Select the correct combination of mathematical signs to sequentially replace the *
signs and to balance the given equation.
30 * 4 * 2 * 1 * 121
Ans
Х2. $\times,-, \div,=$
X 3. $\times,-,+$, $=$
( $4 . \div,+,-,=$
Q. 20 Select the set in which the numbers are NOT related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(267,128,139)$
Ans
X 1. $(267,132,135)$
2. $(325,112,215)$

X 3. $(365,154,211)$
X 4. $(297,146,151)$
Q. 21 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. $15-220$
2.9-84
3.13-172
2. $11-124$
Q.22 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
QRM, PWD, OBU, NGL, ?
Ans
3. MLC
4. MQR
5. MRS
6. MCL
Q. 23 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some tests are exams.
Some exams are viva.
All viva are theories.
Conclusions:
I. Some theories are exams.
II. Some theories are viva.
III. Some tests are viva.

Ans
X 1. Only conclusions II and III follow
2. Only conclusions I and II follow

X 3. Only conclusions I and III follow
$\times 4$. All conclusions follow
Q. 24 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 4$.

Q. 25 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All $Z$ are $X$
II. All G are X.

Conclusions:
I. Some G are Z.
II. All $X$ are $G$.
III. Some $Z$ are $X$.

Ans
X 1. Both conclusions I and III follows
2. Only conclusion III follows

X 3. Neither conclusion follows
X 4. Both conclusions II and III follows

Section: General Awareness
Q. 1 Chemical formula of washing soda is $\qquad$ .
Ans

1. $\mathrm{Na}^{2} \mathrm{CO}^{3} \cdot 10 \mathrm{H}^{2} \mathrm{O}$
2. $\mathrm{Na}^{2} \mathrm{SO}^{4}$
3. NaOH
4. $\mathrm{NaHCO}^{3}$
Q. 2 Which of the following is NOT a feature of National Income?

Ans
X 1. It is a macroeconomic concept.
X 2. It is a flow concept.
X 3. It is always expressed with reference to the financial year.
4. It is included only in intermediate goods.
Q. 3 According to census 2011, the child sex ratio was $\qquad$ females per 1000 males.
Ans

1. 919
2. 909
3. 929
4. 939
Q. 4 Bharatanatyam and Kuchipudi dancer Yamini Krishnamurthy was awarded which of the following awards in 2016?
Ans
X 1. Padma Bhushan
5. Padma Shri
6. Tagore Puraskar
7. Padma Vibhushan
Q. 5 According to the archaeologists, in Harappan cities the part to the west was smaller and higher, was known as $\qquad$ —.
Ans
8. citadel
9. Olympus
10. lower town
11. colosseum
Q. 6 In November 2022, retired Army officer Raj Shukla has been appointed as a member of the $\qquad$ —.
Ans $\quad$ 1. Insurance Regulatory and Development Authority
12. Union Public Service Commission
13. Employees' Provident Fund Organisation
14. Bureau of Indian Standards
Q. 7 In June 2022, the Supreme Court directed that every protected forest, national park and wildlife sanctuary across the country should have a mandatory eco-sensitive zone (ESZ) of a minimum $\qquad$ starting from their demarcated boundaries.
Ans
15. 1 km

X2. 3 km
X 3.2 km
$\times 4.5 \mathrm{~km}$
Q. 8 What happens to the decomposition rate when detritus is rich in lignin and chitin?

Ans
$\times 1$. It is negligible
$X$ 2. It is faster
$X$ 3. There is no movement
4. It is slower
Q. 9 Rani Karnaa Nayak, who was awarded the Padma Shri in 2014, was a $\qquad$ dancer.

Ans $\times 1$. Odissi
2. Mohiniyattam
3. Kathak
4. Kathakali
Q. 10 Black Card given to a badminton player during the game indicates:

Ans
X 1. suspension
X 2. fault
X 3. warning

- 4. disqualification
Q. 11 Who has been appointed as NITI Aayog's new Vice Chairman in May 2022?

Ans
X 1. S Somnath
2. Suman Bery

X 3. Tarun Kapoor
4. Manoj Pande
Q. 12 Who among the following is said to have devised many Raagas or melodies in Hindustani music?

Ans

1. Tansen
2. Raja Beerbal
3. Todar Mal
4. Raja Man Singh
Q. 13 Vernacular press Act was enacted in which year?

Ans

1. 1875
2. 1876
3. 1878
4. 1877
Q. 14 Which of the following is NOT a conductor?

Ans

1. Hard rubber

X 2. Copper
X 3. Silver
4. Nickel
Q. 15 Article 19 of the Indian Constitution provides for how many types of freedoms?

Ans
$\times 1.13$
$\times 2.44$
$\times 3.30$

- 4. 

Q. 16 Who among the following belonged to the ancient chiefly family of the Cholas from Uraiyur, captured the Kaveri delta from the Muttaraiyar in the middle of the ninth century?
Ans
X 1. Gandaraditya
2. Vijayalaya
3. Parantaka I
4. Aditya I
Q. 17 Sarojini Naidu was elected first Indian woman President of the Indian National Congress at $\qquad$ _.

Ans

1. Kanpur
2. Ahmedabad
3. Delhi
4. Nagpur
Q. 18 Which branch of the government is responsible for implementing laws and policies?

Ans
X 1. Judiciary
$\times 2$. Legislature
3. Executive

X 4. NITI Aayog
Q. 19 In a food chain, secondary producers are $\qquad$ .
Ans
X 1. omnivores
2. herbivores
3. carnivores
4. decomposers
Q. 20 Which among the following crops is related to the "Rabi" season in North India?

Ans
X 1. Rice
2. Jowar
3. Maize
4. Barley
Q. 21 Thousands of people from all walks of life took part in the $\qquad$ organised at Hyderabad in May 2022 to mark the 25-day countdown to International Day of Yoga.
Ans
X 1. Yoga Sutra
2. Yoga Utsav

X 3. Yoga Mahotsav
X 4. Yoga Umang
Q. 22 Mango showers are common in $\qquad$ -
Ans
X 1. Uttar Pradesh
2. Kerala

X 3. Maharashtra
4. West Bengal
Q. 23 In the first phase of the green revolution, the use of HYV seeds was restricted to the more affluent of which group of states?
Ans
X 1. Punjab, Rajasthan and Madhya Pradesh
X 2. Punjab, Haryana and Madhya Pradesh
3. Punjab, Tamil Nadu and Andhra Pradesh
4. Punjab, Tamil Nadu and Madhya Pradesh
Q. 24 Sunanda Nair is famous for performing which of the following dance forms?

Ans
X 1. Kathak
X 2. Odissi
X 3. Yakshagana
4. Mohiniyattam
Q. 25 The flat topped table land standing above the surrounding area is called $\qquad$ -
Ans
$\times 1$. Hill
2. Plateau
3. Mountain
4. Valley

Section : Quantitative Aptitude
Q. 1 The value of $97 \times 103$ is $\qquad$ .
Ans1. 7999
2. 9991
3. 8991
4. 9981
Q. 2 The simple interest received on a sum is 25/36 of the sum. The number of years is equal to the annual rate of interest. What is the annual rate of interest?
Ans
< 1. 9.25 percent
2. 10.25 percent
3. 6.62 percent
4. 8.33 percent
Q. 3 Two candidates $P$ and $Q$ contested in an election. 70\% of the registered voters are $P$ supporters. If $60 \%$ of the $P$ supporters and $30 \%$ of the $Q$ supporters are expected to vote for candidate $P$, then what percentage of the registered voters are expected to vote for candidate $P$ ?
Ans
X $1.30 \%$
2. $21 \%$

X $3.26 \%$
4.47\%
Q. 4 If the length of certain rectangle is decreased by 4 cm and breadth is increased by 2 cm , it would result in a square of the same area. What is the perimeter of the original rectangle?
Ans

- 1.15 cm

2. 24 cm
3. 20 cm
4. 10 cm
Q. 5

If $x+\frac{1}{x}=1$, then the value of $x^{12}+x^{9}+x^{6}+x^{3}+1$ is:
Ans

1. 1
$\times 2 .{ }^{-1}$
$\times 3.0$
2. -2
Q. 6 The mid points of $A B$ and $A C$ of a $\triangle A B C$ are $X$ and $Y$, respectively. If $B C+X Y=24$ units, then the value of $B C-X Y$ is:
Ans
1.5 cm
3. 4 cm
3.6 cm
4. 8 cm
Q. 7 Sonali applied for a job of Science teacher in a school. In the test for job, she scored 8 in Physics, 8 in Chemistry, 6 in Biology, and 6.5 in the interview. For calculating the final score, weightage of 2, 3, 3, and 4 were assigned to Physics, Chemistry, Biology and interview, respectively. What is the weighted average score of Sonali?
Ans
5. 7
6. 8.4
7. 7.2
8. 21
Q. 8 The given pie-chart represents the survey report on the favourite games of a group of young people.


If a total of 4980 persons were surveyed, how many of them said football is their favourite game?
Ans
$\times 1.1324$
X2. 1200
$\times 3.1430$
4. 1494
Q. 9 Find the greatest number that will divide 49, 147 and 322 to leave the same remainder in each case.
Ans
$\times 1.9$
$\times 2.5$

- 3.7
$\times 4.8$
Q. 10 If $b \sin \theta=a$, then $\sec \theta+\tan \theta=$ ?

Ans
21. $\sqrt{\frac{b+a}{b-a}}$
$\times 2 . \sqrt{\frac{1}{b+a}}$
X3. $\sqrt{\frac{1}{b-a}}$
$\times 4 . \sqrt{\frac{b-a}{b+a}}$
Q. 11 The mean proportional of $a$ and $b$ is $c$. What is the mean proportional of $a^{2} c$ and $b^{2} c$ ?

Ans
X1. $\mathbf{C}$
$\times 2$ 3 3
2. $c^{3}$

X4. $c^{2}$
Q. 12 Find the area of the sector of a circle with radius 4 cm and angle $30^{\circ}$.

Ans
$X 1.7 .186 \mathrm{~cm}^{2}$
X2. $6.186 \mathrm{~cm}^{2}$
3. $4.186 \mathrm{~cm}^{2}$

X4. $5.186 \mathrm{~cm}^{2}$
Q. 13
$\frac{\cos 20^{\circ}}{\sin 70^{\circ}}+\frac{\cos \theta}{\sin \left(90^{\circ}-\theta\right)}=$ $\qquad$ $-$
Ans
X1. -2
$\times 2 . \frac{1}{2}$
X 3. $-\frac{1}{2}$
4. 2
Q. 14 A boat racer can row $21 \frac{3}{2} \mathrm{~km} / \mathrm{h}$ in still water. If the speed of river is $12.5 \mathrm{~km} / \mathrm{hr}$, it takes him 40 minutes to row to a place and back, how far off is the place (consider up to two decimals)?

Ans

1. $5 \frac{5}{27} \mathrm{~km}$
2. $5 \frac{2}{5} \mathrm{~km}$
$\times 3.4 \frac{5}{27} \mathrm{~km}$
X4. $3 \frac{5}{27} \mathrm{~km}$
Q. 15 The number of mobiles sim-card owners in 4 states UT are given in the bar diagram. Study the diagram and answer the question.


The average of sim-card sold in the four States UT in lakhs is:
Ans $\times 1.51 .5$
2. 51.25
$\times 3.50$
$\times 4.55 .25$
Q. 16 A solid hemisphere has radius 21 cm . It is melted to form a cylinder such that the ratio of its curved surface area to total
surface area is $2: 5$. What is the radius (in cm ) of its base (take $\pi=\frac{22}{7}$ )?
Ans
$\times 1.23$

- 2.21
$\times 3.17$

4. 19
Q. $17 \mathrm{~A}, \mathrm{~B}$ and $C$ can do a piece of work in 11 days, 20 days and 55 days respectively. If $B$ works daily and is supported by $A$ and $C$ on alternate days beginning with $A$, then in how many days will the work be finished?
Ans
X1. 10
-2. $9 \frac{1}{3}$
$\times 3.12$
$\times 4.8$
Q. 18 A number $n$ when divided by 6 , leaves a remainder 3 . What will be the remainder when $\left(n^{2}+5 n+8\right)$ is divided by 6 ?

Ans
$\times 1.1$
$\times 2.3$
$\times 3.5$

- 4.2
Q. 19 What will be the value of $\sin 10^{\circ}-4 / 3 \sin ^{3} 10^{\circ} ?$

Ans
$\times 1 . \frac{1}{3 \sqrt{3}}$
2. $1 / 6$

X 3. $\frac{1}{2 \sqrt{3}}$
X4. $\frac{\sqrt{3}}{6}$
Q. 20 Successive discounts of $18 \%$ and $22 \%$ are equal to a single discount of $\qquad$ .
Ans

1. $36.04 \%$

X 2. 35.04\%
X 3.37.04\%
X4.34.04\%
Q. $21 A D$ is the median of triangle $A B C$. $P$ is the centroid of triangle $A B C$. If $A P=14 \mathrm{~cm}$, then what is the length of PD?
Ans
$\times 1.14 \mathrm{~cm}$
$\times 2.28 \mathrm{~cm}$
X 3.21 cm
4.7 cm
Q. 22 A man lost $15 \%$ by selling a mobile for Rs.4,675. What will be his gain percentage by selling it for Rs.6,050?

Ans
X 1.10.5\%
2. $9.5 \%$
3. 9\%
4. 10\%
Q. 23 In a College, the number of students with different majors are as follows.

| Subject | number of students |
| :--- | :--- |
| Mathematics | 45 |
| Physics | 60 |
| History | 30 |
| Hindi | 65 |
| Sanskrit | 45 |

Find the average number of students in each subject.
Ans
$\times 1.55$

- 2.49
$\times 3.42$
$\times 4.35$
Q. 24 A wire is in the form of square with side 11 cm . It is bent to form a circle. What is the radius of the circle?

Ans
X 1.11 cm
2. 5 cm
3.9 cm
4.7 cm
Q. 25 The table given below shows the production of beauty products by five different companies. What is the ratio of production of beauty product by $A$ to the production of beauty product by E ?

| Companies | Production |
| :---: | :---: |
| A | 30 |
| B | 50 |
| C | 32 |
| D | 15 |
| E | 25 |

Ans
$\times 1.7: 4$
X2.4:5

- $3.6: 5$
4.5:6


## Section : English Comprehension

Q. 1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

I have reached the hotel, by the time you call me.
Ans $\times 1$. will be reaching the hotel
2. No substitution
3. will have reached the hotel
4. had reached the hotel
Q. 2 Select the most appropriate synonym of the underlined word in the given sentence.

The promises made by the old minister were fulfilled.
Ans
X 1. Contemporary
2. Aged
3. Recent
4. Vernal
Q. 3 Select the word that is OPPOSITE in meaning to the underlined word in the given sentence.

He consolidated his position as the leader of the political party.
Ans

1. Weakened
2. Devised
3. Strengthened
4. Formulated
Q. 4 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.It is a very popular character and is the mascot for Walt Disney company.
B.Mickey generally appears with his girlfriend Minnie Mouse and pet Pluto.
C.The animated movies on Mickey mouse have been nominated for the Academy
award.
D.Mickey mouse is a fictional cartoon character created by Walt Disney in 1928.

Ans

1. DABC
2. ADBC
3. ACDB
4. BACD
Q. 5 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
The prisoner was / accused for stealing / from his landlord.
Ans
5. accused for stealing

X 2. The prisoner was
X 3. from his landlord
4. No error
Q. 6 Select the most appropriate meaning of the underlined idiom in the given sentence.

The lecture by the French professor seemed Latin and Greek to the young students.
Ans
X 1. Interesting
X 2. Lucid
X 3. Unbiased
4. Incomprehensible
Q. 7 Select the most appropriate option to fill in the blank.

We ensure that you will get a $\qquad$ chauffeur with the right car for your day.
Ans
X 1. novice
2. uniformed
3. dabbler
4. riotous
Q. 8 Select the INCORRECTLY spelt word.

Ans
X 1. Compact
2. Compell

X 3. Currently
4. Savage
Q. 9 Select the most appropriate synonym of the word 'consensus' from the following sentence.

The landowner and the tenant mutually came to an agreement for decisive acceptance of its clause.
Ans
X 1. Decisive
X 2. Acceptance
X 3. Mutually
4. Agreement
Q. 10 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
She rubbed her hands over her arms, and then $\qquad$ her purse, headed inside the convenience store.
Ans
X 1. snapping
$\times$ 2. slaying
X 3. pinching
4. grabbing
Q. 11 Select the most appropriate idiom that can substitute the italicised words in the given sentence.

Some people still feel that they have very little freedom to be innovative in their work.
Ans

1. elbow room

X 2. an old lady
X 3. an old head on young shoulders
X 4. to make a pile
Q. 12 Select the most appropriate option to replace the underlined segment in the given sentence.
Old people acquire experience through age.
Ans

1. got experience
2. developed experience
3. experienced
4. gain experience
Q. 13 Select the correct active form of the given sentence.

AIDS will have been cured by the year 2070 by scientists.
Ans 1. Scientists will have cured AIDS by the year 2070.
X 2. Scientists cured AIDS by the year 2070.
X 3. Scientists will cure AIDS by the year 2070.
4. Scientists must have cured AIDS by the year 2070.
Q. 14 Select the option that expresses the given sentence in active voice.

Honest and polite people are admired by everyone.
Ans
X 1. Everyone has been admiring honest and polite people.
X 2. Everyone admired honest and polite people.
X 3. Everyone will admire honest and polite people.
4. Everyone admires honest and polite people.
Q. 15 Choose the incorrectly spelt word.

Ans

1. Assidous
2. Disapproval
3. Devastation
4. Conjoined
Q. 16 Select the appropriate option to replace the underlined word with the adverb of frequency.

He did not admit that his team played badly.
Ans

1. never admitted

X 2. yesterday admitted
X 3. happily admitted
X 4 . willingly admitted
Q. 17 Select the correct direct form of the given sentence.

Raveena asked me if I had her maid's number.
Ans

1. Raveena asked me, "Do you have my maid's number?"
2. Raveena asked me, "Are you having my maid's number."

X 3. Raveena said to me, "Does you have my maid's number."
4. Raveena asked to me, "Have you have my maid's number."
Q. 18 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. $P$. There once was a little boy who had a very bad temper.
Q. The boy gradually began to control his temper over the next few weeks, and the number of nails he was hammering into the fence slowly decreased.
R. His father decided to hand him a bag of nails and said that every time the boy lost his temper, he had to hammer a nail into the fence.
S . On the first day, the boy hammered 37 nails into that fence.
Ans
X 1. QRSP
2. PRSQ

X 3.RPSQ
X 4. QPRS
Q. 19 Select the most appropriate ANTONYM of the word established from the given sentence:
Siben feels great satisfaction and gratified when he finds his pupils established successfully in the society when a lot have been displaced because of several failed attempts.
Ans

1. displaced
2. fail
3. gratified
4. pupils
Q. 20 Select the option that expresses the given sentence in indirect speech. He said to him, "Is your name not Ahmed?"

Ans
X 1 . He enquired is your name not Ahmed.
2. He enquired whether his name was not Ahmed.
3. He said whether his name was not Ahmed.
4. He said is your name not Ahmed.

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I will tell you what I will do and what I will not do. I will not (1) $\qquad$ that in which I
no longer believe, (2) $\qquad$ it calls itself my home, my fatherland, or my church: and
I will try to (3) $\qquad$ myself in some mode of life or art as (4) $\qquad$ as
I can and as wholly as I can, using for my defense the only arms I (5) $\qquad$ myself
to use: silence, exile and cunning.
SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. serve
2. drain
3. lag
4. debit

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I will tell you what I will do and what I will not do. I will not (1) $\qquad$ that in which I
no longer believe, (2) $\qquad$ it calls itself my home, my fatherland, or my church: and
I will try to (3) $\qquad$ myself in some mode of life or art as (4) $\qquad$ as
I can and as wholly as I can, using for my defense the only arms I (5) $\qquad$ myself
to use: silence, exile and cunning.
SubQuestion No: 22
Q. 22 Select the most appropriate option to fill in blank number 2

Ans
X 1. sometimes
X 2. nevertheless
3. whether

X 4. presumably

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I will tell you what I will do and what I will not do. I will not (1) $\qquad$ that in which I
no longer believe, (2) $\qquad$ it calls itself my home, my fatherland, or my church: and
I will try to (3) $\qquad$ myself in some mode of life or art as (4) $\qquad$ as
I can and as wholly as I can, using for my defense the only arms I (5) myself
to use: silence, exile and cunning.
SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

- 1. express

X 2. disappear
X 3. collect
X 4. sterilise

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I will tell you what I will do and what I will not do. I will not (1) $\qquad$ that in which I no longer believe, (2) $\qquad$ it calls itself my home, my fatherland, or my church: and
I will try to (3) $\qquad$ myself in some mode of life or art as (4) as
I can and as wholly as I can, using for my defense the only arms I (5) $\qquad$ myself
to use: silence, exile and cunning.
SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. morbidly
X 2. bleakly
X 3. pithily
2. freely

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I will tell you what I will do and what I will not do. I will not (1) $\qquad$ that in which I
no longer believe, (2) $\qquad$ it calls itself my home, my fatherland, or my church: and
I will try to (3) $\qquad$ myself in some mode of life or art as (4) $\qquad$ as
I can and as wholly as I can, using for my defense the only arms I (5) myself
to use: silence, exile and cunning.
SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. behave
2. allow

X 3. caution
X 4. effeminate

Combined Graduate Level Examination Tier I 2022

| Roll Number | Www.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | Www.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Kovilambakkam |
| Exam Date | 06/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 If $X \times Y$ means that $X$ is the father of $B, X \div B$ means that $X$ is the mother of $B, X-Y$ means that $X$ is the brother of $Y$ then which of the following expression shows that $A$ is the father of $C$ ?

Ans
$\times 1 . A-B \times C$
$\times 2 . A \times C-B$
$X 3 . A \times B \div C$
4. $A \times B-C$
Q. 2 Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.

$A$
$E$
$E$
$E$
B

Ans

2.

$\times 3$

$\times 4$

Q. 3 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Octagon : Eight :: Heptagon : ?
Ans
X 1. Ten
X 2. Six
X 3. Nine
4. Seven
Q. 4 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(2,125,3)$
$(1,64,3)$
Ans $\quad \times 1 .(2,100,8)$
2. $(5,512,3)$
3. $(12,50,13)$
4. $(4,341,3)$
Q. 5 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term. 10 : 45 :: ? : 28 :: 11 : 55

Ans
$\times 1.9$
2. 8
$\times 3.12$
X 4.10
Q. 6 By interchanging the given two signs which of the following equation will be correct? + and $\div$

Ans
X1. $9 \times 18+27 \div 36-30=18$
2. $9+3 \times 2-8 \div 1=-1$
3. $16+8 \times 2 \div 6-9=10$
4. $16+2 \times 6 \div 3-7=50$
Q. 7 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row: 243, 162, 9
Second row: 108, 72, 6
Third row: 48, ?, 4
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
$\times 1.12$
X 2.21

- 3.32
$\times 4.23$
Q. 8 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans

1. $8-60$
2. $6-33$
3. $12-141$
4. $10-97$
Q. 9 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?
$14+39-(\sqrt{144} \div 4)+(5 \times 3)-6=63$
Ans
X 1.14 and 6
$\times 2.5$ and 39

- 3.4 and 3
$\times 4.4$ and 6
Q. 10 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 11 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

Ans
X 1. MNG
X 2. STM
X 3.ABU
4. HED
Q. 12 In a certain code language, 'NULLIFY' is written as 'MFOLRUB' and 'SKYWALK' is written as 'HPBWZOP'. How will 'FLAGGER' be written in that language?

Ans
X 1. VOZGTVI
X 2. UOZHTVI
3. UOZGTVI
4. UOZITVL
Q. 13 Which of the following numbers will replace the question mark (?) in the given series?

121, 169, 289, ?, 529, 841
Ans
$\times 1.484$
2. 361
3. 343
4. 441
Q. 14 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Dog: Bitch :: Stallion : ?
Ans
X 1. Doe

- 2. Mare

3. Goose
4. Vixen
Q. 15 Two positions of the same cubical block are shown. When ' 6 ' is at the top, which number will be at the bottom?


Ans
7. 4
-2. 2
3.3
4. 5
Q. 16 Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).


Ans

$\times 2$

$\times 3$

$\times 4$

Q. 17 Select the figure from among the given options that can replace the question mark
(?) in the following series.

| A | B |
| :--- | :--- |
| D | C |

$\begin{array}{ll}C & F \\ L & I\end{array}$


Ans

$\times 3$.

$\times 4$

Q. 18 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow (s) from the statements.
Statements:
Some mice are keyboards.
All keyboards are CPUs.
All mice are webcams.
Conclusions:
I. Some CPUs are mice.
II. Some webcams are keyboards.
III. Some webcams are CPUs.

Ans

1. All conclusions follow
2. Only conclusions I and II follow
3. Only conclusions II and III follow
4. Only conclusions I and III follow
Q. 19 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
$x$ and,- 4 and 5
I. $9 \div 3 \times 6+5-4$
II. $5-4 \times 3+6 \div 2$

Ans 1.17,20
2. 8,6
3. 16, 20
4. 20,17
Q. 20 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1-Miscellaneous
2- Miscalculate
3- Mischance
4- Miscall
5-Miscasting
Ans
X 1.2, 4, 1, 5, 3
2. $2,4,5,1,3$
3. $4,2,5,3,1$
4. $4,2,5,1,3$
Q. $21 A$ - $B$ means ' $A$ is the mother of $B$ '
$A \% B$ means ' $A$ is the brother of $B$ '
$A$ \$ $B$ means ' $A$ is the sister of $B$ '
$A @ B$ means ' $A$ is the son of $B$ '
If $\mathrm{L} @ \mathrm{M}-\mathrm{N} \$ \mathrm{O}$ \% P , then how is L related to P ?
Ans
X 1. Brother-in-law
X 2. Father
3. Son
4. Brother
Q. 22 Which letter-cluster will replace the question mark (?) to complete the given series? MDSA, KERC, ?, GGPG, EHOI

Ans

1. IFQE
2. IFQG
3. IEQF
4. IQFE
Q. 23 In a certain code language, BELOVED is coded as 65, and FLOWER is coded as 79. How will QUIVER be coded in that language?
Ans
5. 92
-2. 94
6. 91
7. 90
Q. 24 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All $Q$ are M.
II. All O are M .

Conclusion:
I. Some O are not Q.
II. All $M$ are $\mathbf{Q}$.

Ans

1. Both conclusions I and II follows
2. Only conclusion II follows
3. Only conclusion I follows
4. Neither conclusion follows
Q. 25 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NDRF, NZJT, NVBH, NRTV, ?
Ans
X 1. NJRM
X 2. NTQC
5. NNLJ
6. NIRQ

Section: General Awareness
Q. 1 Baishakhi, the famous festival of Sikhs, is celebrated in which month every year?

Ans

1. April
2. February
3. January
4. March
Q. 2 Chola inscriptions mention several categories of land, which of the following land was known as gifted to temples?

Ans

1. Devadana
2. Shalabhoga
3. Pallichchhandam
4. Brahmadeya
Q. 3 Who was sworn in as the Central Vigilance Commissioner (CVC) by President Droupadi Murmu in August 2022?
Ans
X 1. Rajiv Gauba
5. Ranjit Rath
6. Pramod Kumar
7. Suresh N. Patel
Q. 4 The appointments committee of cabinet (ACC) extended the tenure of current

Research and Analysis Wing (RAW) chief for another year, till June 30, 2023. Who is the current chief?

Ans $\quad$ 1. Mukul Rohatgi
2. Anil Chauhan
3. Samant Kumar Goel
4. Sunil Barthwal
Q. 5 How many times did India organise the Commonwealth Games?

Ans

- 1. Once

X 2. Twice
X 3. Thrice
X4. Never
Q. 6 Identify a dark-coloured amorphous substance that is highly resistant to microbial action and undergoes decomposition at an extremely slow rate.
Ans
X 1. Chitin
2. Humus

X 3. Carotenoids
4. Colloids
Q. 7 How many Indian states shares its border with Bangladesh?

Ans
X 1. Three
X 2. Four
X 3. Six
4. Five
Q. 8 Established in 1867 at Bombay, the $\qquad$ sought to remove caste restrictions, abolish child marriage, and encourage the education of women, etc.
Ans
X 1. Veda Samaj
2. Arya Samaj
3. Prarthana Samaj
4. Satyashodhak Samaj
Q. 9 A Hindu festival celebrated by the Tamil community that falls in the Tamil Solar Month is called?

Ans

1. Karaga
2. Bihu
3. Onam
4. Thaipusam
Q. 10 Goods and services tax (GST) became operational from $\qquad$ -.
Ans
, 1. 1 July 2017
X 2. 1 May 2016
X 3. 1 April 2016
X 4. 1 April 2017
Q. 11 Which of the following was known as an organisation of merchants in the inscriptions of the Pallavas?

Ans

1. Nagaram

X 2. Sangathana
X 3. Ur
X4. Sabha
Q. 12 Sundaram Balachander has been the main player of which of the following musical instruments?

Ans
X 1. Mridangam
2. Bansuri
3. Veena
4. Santoor
Q. 13 As of 10 April 2022, who among the following is the Chief Minister of Puducherry?

Ans

1. N Rangasamy
2. RV Janakiraman
3. V Vaithilingam
4. P Shanmugam
Q. 14 What is the average height of troposphere?

Ans
X 1.20 km
2. 13 km
$\times 3.24 \mathrm{~km}$
4.8 km
Q. 15 pH of milk of magnesia is $\qquad$ .
Ans
$\times 1.12$
$\times 2.8$

- 3.10

X 4.14
Q. 16 The real executive power is vested in the Council of Ministers with the $\qquad$ as its head.
Ans

1. Prime Minister
2. Speaker of Rajya Sabha
3. Vice President
4. President
Q. 17 Which singer was given the Padma Shri in 2022 under the Arts category?

Ans
X 1. Kumar Sanu
2. Udit Narayan
3. Abhijeet Bhattacharya
4. Sonu Nigam
Q. 18 What is the numerical value of a physical quantity?

Ans
X 1. Reference
2. Direction
3. Distance
4. Magnitude
Q. 19 In March 2022, Tripura government announced $\qquad$ reservation for women in government jobs.

Ans
X 1.20 percent
X 2. 27 percent
3. 10 percent
4. 33 percent
Q. 20 In 1840, the Paramhans Mandali was established to work for the abolition of 'Caste' at

Ans
$\qquad$ —.

1. Lahore
2. Calcutta
3. Surat
4. Bombay
Q. 21 In football, when the ball strikes the frame of the goal or the referee and remains within the goal and touch lines, it is:
Ans
X 1 . foul
5. still in play
6. a misconduct
7. out of play
Q. 22 The Indian Institute of remote sensing was established at:

Ans $\times 1$. Khadakwasla
2. Shimla
3. Dehradun
4. Kochi
Q. 23 'Modernisation' as a goal of planning in context of the Indian economy was NOT aimed at:

Ans 1. adopting a Western lifestyle
2. change in social outlook
3. increase in production of goods and services
4. use of new technology
Q. 24 In 1664, who discovered the fifth star in the Trapezium, an asterism (miniconstellation) in the constellation Orion?
Ans

1. George Willis Ritchey
2. Giordano Bruno
3. Johannes Kepler
4. Robert Hooke
Q. 25 Match column A with column B.

| Column A | Column B |
| :--- | :--- |
| i. Kwashiorkor | a. Iodine deficiency |
| ii. Weak bones and <br> muscles | b. Iron deficiency |
| iii. Anaemia | c. Calcium <br> deficiency |
| iv. Goitre | d. Protein deficiency |

Ans
X 1. i-c, ii-b, iii-d, iv-a
2. i-b, ii-a, iii-c, iv-d
3. i-d, ii-c, iii-b, iv-a
4. i-b, ii-c, iii-a, iv-d

Section : Quantitative Aptitude
Q. 1 How many circles can be drawn that pass(es) through two fixed points?

Ans

1. Infinite

X 2. Only two
3. One or two
4. Only one
Q. 2 If $x$ is the mean proportional between 12.8 and 64.8 , then the value of $x$ is:

Ans $\times 1.32$
2. 34
3. 28.8
4. 26.4
Q. 3 If $\cot A=15 / 8$, then what will be the value of $\tan 2 A$ ?

Ans
X 1. 200/161
2. $240 / 161$
3. 240/173
4. $220 / 171$
Q. 4 The table given below shows the number of persons participating in a survey from 6 different states.

| States | Persons |
| :---: | :---: |
| J | 200 |
| K | 300 |
| L | 500 |
| M | 600 |
| N | 700 |
| P | 900 |

Number of persons participating in the survey from $L$ is what percent of the number of persons participating in the survey from J?
Ans
X 1.200 percent
2. 250 percent
$\times 3.80$ percent
4. 40 percent
Q. 5 The table given below shows the temperature recorded every day in a certain week.

| Days | Temperature |
| :---: | :---: |
| Monday | $20^{\circ}$ |
| Tuesday | $45^{\circ}$ |
| Wednesday | $30^{\circ}$ |
| Thursday | $50^{\circ}$ |
| Friday | $25^{\circ}$ |
| Saturday | $55^{\circ}$ |
| Sunday | $60^{\circ}$ |

What is the difference between the temperature recorded on Monday and Tuesday together and the temperature recorded on Friday and Saturday together?
Ans
$\times 1.25$ degree
K 2. 20 degree
3. 15 degree
4. 10 degree
Q. $63^{50}+9^{26}+27^{18}+9^{28}+9^{29}$ is divisible by which of the following integers?

Ans

1. 11
2.5
3.7
4.2
Q. 7 A car with a price of $₹ 6,50,000$ is bought by making some down payment. On the balance, a simple interest of $10 \%$ is charged in lump sum and the money is to be paid in 20 equal annual instalments of ₹ 25,000 . How much is the down payment?
Ans
X 1. ₹ $1,55,945$
2. ₹ $1,95,455$
$X$ 3. ₹ $1,94,555$
X4. ₹ $1,45,955$
Q. 8 A shopkeeper has 2220 kg of rice. A part of which he sells at a $20 \%$ profit and the rest at a $12 \%$ profit. He gains $18 \%$ on the whole. The quantity (in kg ) sold at a $12 \%$ profit is:
Ans
3. 555

X 2.1210
X 3.1665
$\times 4.425$
Q. 9 Choose the correct statement from the following.

Ans
$\times 1$. HCF is the least common multiple of the given numbers.
2. HCF of two or more numbers is the highest number which perfectly divides all the
given numbers.
3. HCF is also called the least common divisor.
4. In prime factorisation method of HCF, the multiples of all the given numbers are listed.
Q. 10 The pie chart given below shows the production of 6 different factories. The total production of all these 6 factories is 12000. The production of a particular factory is shown as a percent of total production of all these 6 factories.

$J 1=$ The value of average production of $P$ and $R$.
$\mathrm{J} 2=$ The value of average production of Q and T .
What is the value of $(\mathrm{J} 1-\mathrm{J} 2)$ ?
Ans
$\times 1.360$
2. 420
$\times 3.340$
4.400
Q. 11 If $\frac{a}{b}+\frac{b}{a}=1$ and $a+b=2$, then the value of $\mathrm{a}^{3}+\mathrm{b}^{3}$ is:

Ans
$\checkmark 1.0$
$\times 2.3$
$\times 3.1$
$\times 4.2$
Q. 12 If 3 coconuts are offered free on purchase of 12 coconuts, priced ₹25 each, what is the effective discount on each coconut?.
Ans

1. $20 \%$
2. $24 \%$
3. $20.83 \%$
4. $15 \%$
Q. 13 The population of country A decreased by $p \%$ and the population of country $B$ decreased by $q \%$ from the year 2020 to 2021. Here ' $p$ ' is greater than ' $q$ '. Let ' $x$ ' be the ratio of the population of country $A$ to the population of country $B$ in the given year. What is the percentage decrease in ' $x$ ' from 2020 to 2021?
Ans
5. $\frac{100(p-q)}{(100-q)}$
$\times 2 \cdot \frac{100(p-q)}{100+P}$
$\times$ 3. $\frac{100(p-q)}{100-p}$
$\times$ 4. $\frac{100(p-q)}{100+q}$
Q. 14 A chord of length 40 cm is drawn in a circle having diameter 50 cm . What is the minimum distance of other parallel chord of length 30 cm in the same circle from 40 cm long chord?

Ans

1. 10 cm
2. 15 cm
3.5 cm
4.20 cm
Q. 15 If $4 x^{2}+y^{2}=40$ and $x y=6$, find the positive value of $2 x+y$.

Ans

1. 8
$\times 2.6$
$\times 3.5$
$\times 4.4$
Q. 16 Piyush sold a guitar to Anuj at $16 \%$ gain and Anuj sold it to Mayank at $\mathbf{3 2 \%}$ gain. If

Mayank paid Rs.3,828 for the guitar, what amount did Piyush pay for the same?
Ans

1. Rs.2,500
2. Rs.3,200
3. Rs.1,600
4. Rs.2,800
Q. 17 The extermal diameter of an iron pipe is 20 cm and its length is 12 cm . If the thickness of the pipe is 1 cm , find the
surface area of the pipe (take $\pi=\frac{22}{7}$ ) correct to two places of decimal.
Ans
$\times 1.1,662.67 \mathrm{~cm}^{2}$
5. $1,552.57 \mathrm{~cm}^{2}$
$X$ 3. $1,442.48 \mathrm{~cm}^{2}$
X4. $1,772.76 \mathrm{~cm}^{2}$
Q. 18 A group of men decided to do a job in 6 days, but 18 men dropped out every day. If the job was completed in 8 days, then how many men initially decided to do the job.
Ans
< 1.300
6. 252
$\times 3.188$
7. 150
Q. 19 What is the value of $\frac{\cos 37^{\circ}}{\sin 53^{\circ}}$ ?

Ans

1. $\frac{1}{2}$
2. $\frac{1}{\sqrt{2}}$
$\times 3.0$
-4. 1
Q. 20

What is the value of $\operatorname{Cos}\left(-\frac{17 \pi}{3}\right)$
Ans
$\times 1.1$
$\times$ 2. $\frac{\sqrt{3}}{2}$
จ3. $\frac{1}{2}$
$\times 4.0$
Q. 21 A dog saw a cat at a distance of 280 m . The cat started running at the speed of $10 \mathrm{~km} / \mathrm{h}$ and the dog also ran to catch it with the speed of $24 \mathrm{~km} / \mathrm{h}$. How much time will the dog take to catch the cat?
Ans
$\times 1.1 .4 \mathrm{~min}$
X2. 1.5 min
2. 1.2 min
4. 1.3 min
Q. 22 A tangent is drawn from a point $M$ to a circle, which meets the circle at $T$ such that MT $=12 \mathrm{~cm}$. A secant MAB intersects the circle at points $A$ and $B$. If MA = 8 cm, what is the length (in cm ) of the chord $A B$ ?
Ans
$\times 1.16$
2. 10
$\times 3.12$
<4.9
Q. 23

If $\mathrm{p}=7+4 \sqrt{3}$, then what is the value of $\frac{\mathrm{p}^{6}+\mathrm{p}^{4}+\mathrm{p}^{2}+1}{\mathrm{p}^{3}}$ ?

Ans

1. 2617
2. 2167
3. 2716
4. 2176
Q. 24 The height of an equilateral triangle is $7 \sqrt{3} \mathrm{~cm}$. What is the area of this equilateral triangle?
Ans
5. $36 \sqrt{3} \mathrm{~cm}^{2}$
6. $25 \sqrt{3} \mathrm{~cm}^{2}$
7. $49 \sqrt{3} \mathrm{~cm}^{2}$
8. $32 \sqrt{3} \mathrm{~cm}^{2}$
Q. 25 The pie chart given below shows the number of boys in 8 schools. The total number of boys in all these 8 school is 12000 . Number of boys in a particular school is shown as a percent of total number of boys in all these 8 schools.


The average number of boys in S 1 and S 2 is what percent of the average number of boys in S6 and S8?

Ans

1. 133.33 percent
2. 192.24 percent
3. 172.26 percent
4. 146.15 percent

## Section : English Comprehension

Q. 1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The soldiers had no choice to report the loss to their commander.
Ans
$X$ 1. no choice as to
X 2. no choice how to
X 3. No substitution required
4. no choice but to
Q. 2 Identify the most appropriate ANTONYM of the underlined word in the given sentence.

The game continued due to heavy rainfall after the pitch became completely wet.
Ans
$\times 1$. ongoing
2. played
3. stopped
4. disregarded
Q. 3 Select the most appropriate meaning of the given idiom.

On the ball
Ans

1. To be alert
2. Doing a bad job
3. Doing an average job
4. To be lazy
Q. 4 Select the most appropriate collocating word to fill in the blank.

Great people are always ready to $\qquad$ responsibilities.
Ans

1. kindle
2. secure
3. shoulder
4. burden
Q. 5 Select the most appropriate ANTONYM of the word 'IMMORAL' from the given sentence.

The city of Hamburg and its surrounding region have generally decent health, with no pandemic illnesses having lately developed to any significant degree.

Ans
$\times 1$. Degree

- 2. Decent

X 3. Illness
X4. Region
Q. 6 In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'.

The Education Ministry believes that after the reopening of the schools, it will take some time to regain the equiliebrium.

Ans
X 1. equilibreum
2. equelibrium
3. No error
4. equilibrium
Q. 7 Select the sentence with the appropriate use of preposition.

Ans

1. By means of rope ladders they scaled the wall.
2. Along with means of rope ladders they scaled the wall.

X 3. in means of rope ladders they scaled the wall.
X 4. Of means of rope ladders they scaled the wall.
Q. 8 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. Such problems include difficulty in implementing decisions, providing social security to everyone and ensuring employment.
B. This is because almost all countries face problems related to their population.
C. The most crucial aspect of the problem is population pressure.
D. The population explosion is an important issue these days.

Ans
X 1. CDAB
X 2. DBCA
3. DBAC

X4.ABCD
Q. 9 Select the correct indirect form of the given sentence.

Radha said, "Why didn't he forward his petition to me?"
Ans

1. Radha enquired why he had not forwarded his petition to her.
2. Radha enquired why he has not forwarded his petition to her.
3. Radha enquired why had he not forwarded his petition to her.
4. Radha enquired why he had not forward his petition to her.
Q. 10 Rearrange the parts of the sentence in correct order. Electrolytes like
P. important for balancing the water in your body
Q. are present in the body's fluids and are
R. are electrically charged minerals that
S. sodium, potassium, chloride and magnesium

Ans
X 1. PQSR
X 2. SPRQ
X 3. SQRP
4. SRQP
Q. 11 Select the option that can be used as a one-word substitute for the underlined words in the given sentence.

Today my dad will teach me how to make a small shelter for my dog.
Ans

1. kennel
2. canal
3. burrow
4. shed
Q. 12 Select the most appropriate ANTONYM of the given word. Harmony
Ans
5. Hostility

X 2. Congruity
X 3. Consent
4. Concord
Q. 13 Select the most appropriate option to complete the given sentence. His brother $\qquad$ his $\qquad$ and gave him a watch after his result.
Ans
X 1. took, word
X 2. broke, record
X 3. lost, temper
4. kept, promise
Q. 14 Select the correct active form of the given sentence.

The dog was terrified by the unexpected noise.
Ans
$X 1$. The unexpected noise had terrified the dog.
2. The unexpected noise terrified the dog.
3. The unexpected noise has terrified the dog.
4. The unexpected noise terrifies the dog.
Q. 15 Select the option that can be used as a one-word substitute for the given group of words.

Existing in a land from the earliest times or from before the arrival of colonists
Ans
X 1. Native
$X$ 2. Ancient
3. Aboriginal

X4. Original
Q. 16 Select the correct active form of the given sentence.

This trail is not frequently visited by hikers.
Ans
X 1. Hikers not have frequently visit this trail.
X 2. Hikers does not frequently visit this trail.
3. Hikers do not visit this trail frequently.
4. Hikers did not frequently visit this trail.
Q. 17 Select the INCORRECTLY spelt word.

Ans
$\times 1$. Athlete
X 2. Practically
X 3. Benefitted
4. Antartic
Q. 18 Select the most appropriate synonym of the underlined word in the given sentence.

The essayist's sole intention was to baffle his readers.
Ans

1. Puzzle
2. Influence
3. Scold
4. Annoy
Q. 19 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

He always / aimed highly / in life.
Ans
X 1. No error
2. in life
3. aimed highly
4. He always
Q. 20 Select the most appropriate meaning of the underlined idiom.

When the war breaks out, all the war mongering social media activists become yellow bellies.
Ans
X 1. Zealots
2. Cowards
3. Sceptics
4. Upset stomachs

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

India is one of the largest producers of tea in the world. The industry is (1)
recognised as technically very well (2) $\qquad$ The Indian tea industry is
$\qquad$
$\qquad$
one traditionally. Tea has been used in India for (4) $\qquad$ purposes as well as for (5)
$\qquad$ -.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. globally

X 2. tediously
X 3. industrially
4. mutually

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

India is one of the largest producers of tea in the world. The industry is (1) $\qquad$ recognised as technically very well (2) $\qquad$ The Indian tea industry is a (3) one traditionally. Tea has been used in India for (4) $\qquad$ purposes as well as for (5)
$\qquad$ -.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. complex
X 2. establish
X 3. pampered
4. equipped

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

India is one of the largest producers of tea in the world. The industry is (1)
recognised as technically very well (2) $\qquad$ The Indian tea industry is a (3) one traditionally. Tea has been used in India for (4) $\qquad$ purposes as well as for (5)

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. flourish
X 2. condensing
3. flourishing
4. thrashing

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

India is one of the largest producers of tea in the world. The industry is (1) $\qquad$
recognised as technically very well (2) $\qquad$ The Indian tea industry is a (3)
one traditionally. Tea has been used in India for (4) $\qquad$ purposes as well as for (5)

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. sick
$\times$ 2. immune

- 3. medicinal

X4. immunology

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

India is one of the largest producers of tea in the world. The industry is (1)
recognised as technically very well (2) $\qquad$ The Indian tea industry is a (3) one traditionally. Tea has been used in India for (4) $\qquad$ purposes as well as for (5)

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. fulfillment
X 2. advantage
3. consumption

X 4. retention

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WwW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Bopal |
| Exam Date | O7/12/2022 |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 A \# $B$ means ' $A$ is the brother of $B$ '.
$A @ B$ means ' $A$ is the son of $B$ '.
$A$ \& $B$ means ' $A$ is the father of $B$ '.
$A \% B$ means ' $A$ is the mother of $B$ '.
If W \# Q @ T \& Y @ M \% K \% L, then how is K related to W?
Ans

1. Sister

X 2. Sister-in-law
3. Mother
4. Daughter
Q. 2 In a certain code language, 'PEPPER' is coded as 76 and 'CUCUMBER' is coded as 86. How will 'CAULIFLOWER' be coded in that language?

Ans

1. 125
2. 126
3. 116
4. 106
Q. 3 Select the figure that will replace the question mark (?) in the following figure series.


Ans

$\times 3$.

4.

Q. 4 If $A-B$ means that $A$ is the father of $B, A+B$ means that $A$ is the mother of $B, A \times B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the brother of $P$ ?

Ans

1. $P \times Q-R$
2. $P \times Q+R$

- 3. $R+P \times Q$

C4. $Q \times P-R$
Q. 5 By interchanging the given two signs which of the following equation will be not correct?

+ and :
Ans
X1. $12 \div 8 \times 12+6-7=21$
X2. $9-3+12 \times 8 \div 4=11$
Х $3.46+23 \div 14 \times 5-6=66$

4. $6+20 \div 12 \times 7-11=70$
Q. 6 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
4:84:: 11 : ? :: 13 : 2379
Ans

- 1.1221

2. 1463
$\times 3.1440$
$\times 4.819$
Q. 7 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
3. Effluent
4. Edifice
5. Effleurage
6. Edacious
7. Effeminate
8. Eccentric
9. Effulgent

Ans

1. $6,4,2,5,3,1,7$
2. $6,4,2,3,5,1,7$
3. $6,4,2,5,1,3,7$
4. $6,4,2,5,7,3,1$
Q. 8 Which letter-cluster will replace the question mark (?) to complete the given series? XDNC, VGOE, ?, RMQI, PPRK
Ans

- 1. TJRG

2. TKPG
3. TJPG
4. TJQG
Q. 9 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(3,13,18)$
$(29,39,44)$
Ans
X 1. $(17,27,42)$
$\times 2 .(25,30,55)$
X $3 .(26,30,47)$
5. $(16,26,31)$
Q. 10 In the following question, select the missing number from the given series.

7, 21, 63, 189, 567, ?
Ans

1. 1701
2. 1800
3. 1720

X4. 1781
Q. 11 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NTRQ, GOIF, ZJZU, SEQJ, ?
Ans

1. LZHY
2. QNRT
3. LMRC
4. LXYQ
Q. 12 By Interchanging the given two numbers which of the following equation will be correct?
5 and 8
Ans
5. $5 \times 2-8+9 \div 1=20$
6. $8+5 \times 4-9 \div 3=30$
$3.5 \times 7+8-3 \div 1=55$
$4.8-5 \times 2+6 \div 2=-9$
Q. 13 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 14 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 2 '.


Figure 1


Figure 2


Figure 3

Ans
-1. 1
$\times 2.6$
$\times 3.3$
$\times 4.4$
Q. 15 Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.


B
Ans

Q. 16 In a certain code language, 'health is wealth' is coded as ' 626 ', 'exercise regularly' is coded as '89' and 'bring good food' is coded as '544'. How will 'balanced diet is key' be coded in that language?
Ans

1. 8423
2. 7312
3. 3721
4. 4832
Q. 17 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some $\mathbf{G}$ are U.
II. Some S are U.

Conclusion:
I. No $S$ is $G$.
II. No U is G .

Ans

1. Only conclusion I follows
2. Only conclusion II follows
3. Neither conclusion follows
4. Both conclusions I and II follows
Q. 18 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1.18-329

2. $16-263$
3.14-201
3. 12-49
Q. 19 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
All the medicines are capsules.
Some capsules are bangles.
Some bangles are toothpastes.
Conclusions:
I. Some bangles are medicines.
II. Some toothpastes are capsules.
III. Some medicines are bangles.
IV. Some medicines are toothpastes.

Ans
X 1. Only conclusions III and IV follow
2. None of the conclusions follow

X 3. Only conclusions II and III follow
X 4. Only conclusions I and II follow
Q. 20 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans
X 1. UVD
X 2. PQI
3. JKZ

X4.EFT
Q. 21 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 3$.

Q. 22 If ' + ' means ' $\div$ ', ‘ - ' means ' + ', ' $x$ ' means ' - ' and ' $\div$ ' means ' $~ x$ ', what will be the value of the following expression?
$[\{(34 \times 12)-(4 \div 3)\}+(12-5)] \div 5$
Ans

1. 10
2. 1
3. 2
4. 20
Q. 23 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Kite : Diamond :: Ball : ?
Ans
X 1. Triangle
5. Square
6. Round
7. Pentagon
Q. 24 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related
to each other based on the number of letters/number of consonants/vowels in the
word)
Money plant : Climber
Ans
8. Rose : Shrub
9. Peas: Green
10. Basil : Tree
11. Banyan : Roots
Q. 25 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
15 : 125 :: 27 : ? :: 36 : 1728
Ans
$\times 1.689$
12. 749
13. 790
14. 729

[^4]Q. 1 Who has been signed on as a brand ambassador of lubricant manufacturer Gulf Oil India in October 2022?

Ans

1. Sonu Sood
2. Rishabh Pant
3. Sania Nehwal
4. Smriti Mandhana
Q. 2 The motion of the body moving along a circular path is an example of $\qquad$ -.
Ans
X 1. decelerated motion
5. accelerated motion
6. non-uniform motion
7. uniform motion
Q. 3 Which of the following bills can be initiated only in the Lok Sabha?

Ans
X 1. Private members bill
2. Constitution amendment bill
3. Government bill
4. Money bill
Q. 4 Where does the headquarters of the Indian Council of Agricultural Research Institute located?
Ans
X 1. Amritsar
$X$ 2. Surat
X 3. Lucknow
4. New Delhi
Q. 5 From which year did Sangeet Natak Akademi, New Delhi, institute the Ustad Bismillah Khan Yuva Puraskar?

Ans
X 1.2001
2. 2005
3. 2004
4. 2006

## Q. 6 Which of the following are food preservatives?

Ans

1. Salt, sodium nitrite, spices and vinegar

X 2. Gypsum, soda and methyl alcohol
X 3. Gypsum, salt and formic acid
X 4. Formic acid, vinegar and methyl alcohol
Q. 7 Who among the following was conferred with the Padma Shri Award, 2021, for populating folk dance in rural Karnataka, Tamil Nadu, and Andhra Pradesh?
Ans
X 1. Rama Swamy Annavarapu
X 2. P Anitha
X 3. Pappammal
4. Matha B Manjamma Jogati
Q. 8 Which of the following Chola ruler built a temple for goddess Nishumbhasudini?

Ans
X 1. Aditya 1
X 2. Rajendra II
3. Vijayalaya

X 4. Rajaraja I
Q. 9 Which of the following line separates Pakistan and Afghanistan?

Ans $\times 1$. McMohan line
2. Jinnah line
3. Durand line
4. Radcliffe line
Q. 10 The Phase -I programme of 'Sagar Parikrama' has been organized in Gujarat, started on 5th March, 2022 from $\qquad$ -.
Ans
X 1. Kheda
2. Porbandar
3. Banaskantha
4. Mandvi
Q. 11 Who was Player of the Match in the final of U-19 World Cup cricket,2022?

Ans
X 1. James Rew
X 2. Nishant Sindhu
3. Raj Bawa

X 4. Yash Dhull
Q. 12 Warren Hastings became the first Governor General of India in which year?

Ans
X 1.1767
2. 1757
3. 1773
4. 1783
Q. 13 When expenditure exceeds revenue, the budget is said to be in $\qquad$ -.
Ans

1. deficit
2. surplus
3. reserve
4. debt
Q. 14 Who wrote the book titled 'Gift to Monotheism'?

Ans
X 1. Swami Vivekanand
2. Dayanand Saraswati
3. Kehsavchand Sen
4. Rajaram Mohan Rai
Q. 15 Yamini Krishnamurthy is famous for which dance form?

Ans
X 1. Manipuri
2. Odissi
3. Bharatanatyam
4. Yakshagana
Q. 16 What is the set of ecosystem called?

Ans
X 1. Stratosphere
X 2. Hydrosphere

- 3. Biome

X 4. Atmosphere
Q. 17 Who choreographed the Bollywood song 'Mohe Rang Do Laal' from Bajirao Mastani?

Ans
X 1. Saroj Khan
X 2. Farah Khan
X 3. Ganesh Acharya
4. Birju Maharaj
Q. 18 Which of the following is a strong reducing agent used to reduce aldehydes, ketones, esters, carboxylic acid chlorides, carboxylic acids and even carboxylate salts to alcohols?
Ans

1. Titanium hydride
2. Lithium aluminum hydride
3. Calcium hydride
4. Bismuth hydride
Q. 19 The headwaters of the river Ganga is called $\qquad$ -

Ans
X 1. Mandakini
2. Alaknanda
3. Bhagirathi
4. Sursari
Q. 20 In hockey, what is the meaning of the signal if the umpire points both arms horizontally towards the goal?
Ans
$X$ 1. Free hit
2. Penalty corner
3. Penalty stroke
4. Goal scored
Q. 21 Government of India has appointed $\qquad$ as Controller General of Accounts in October 2022.

Ans
X 1. Vinayak Godse
2. Sandeep Bakshi
3. Bharati Das

X 4. KG Mohan
Q. 22 Low annual range of temperature and high annual rainfall are characteristics of a

Ans

1. Mediterranean climate
2. temperate climate
3. tropical humid climate
4. cold climate
Q. 23 In ancient times, the area to the south of the Ganga was known as $\qquad$ -

Ans 1. Magadha
2. Kosala
3. Anga
4. Matsya
Q. 24 $\qquad$ port, situated at the head of Gulf of Kuctch has been developed as a major port to cater to the needs of western and north-western parts of the country and also to reduce the pressure at Mumbai port.
Ans
X 1. Ahmedabad
2. Kandla
3. Kochchi
4. Kolkata
Q. 25 In which of the following years was the Citizenship Act passed by the Indian Parliament?
Ans
< 1.1950
2. 1945
3. 1955
4. 1948
Q. 1 The table given below shows the production and consumption of coals of 6 different countries.

| Country | Production | Consumption |
| :---: | :---: | :---: |
| P | 170 | 132 |
| Q | 336 | 248 |
| R | 244 | 185 |
| S | 330 | 245 |
| T | 275 | 226 |
| U | 195 | 174 |

What is the value of total consumption of coal of all the $\mathbf{6}$ countries?
Ans
X 1.1010
$\times 2.401$

- 3.1210
$\times 4.201$
Q. 2

If $x^{4}+\frac{1}{x^{4}}=194$ and $x^{3}+\frac{1}{x^{3}}=?$

Ans

- 1.52
$\times 2.58$
$\times 3.76$
$\times 4.67$
Q. 3 Simplify the given expression.
$(5 x+8 y)\left(25 x^{2}+64 y^{2}-40 x y\right)$
Ans
X1. $125 x^{3}-512 y^{3}$
X $2.25 x^{3}+64 y^{3}$
- $3.125 x^{3}+512 y^{3}$

X $4.25 x^{3}-64 y^{3}$
Q. 4 A civil contractor planned to build an over bridge of $\mathbf{3 k m}$ distance in $\mathbf{6 0 0}$ days. For this purpose, he employed 90 workers. After 200 days of work, it was observed that only 0.5 km of the bridge was completed. What is the number of extra workers required to complete the work in time?
Ans
-1. 100
$\times 2.140$
X 3.125
2. 135
Q. 5 A shopkeeper bought a cycle for $₹ 1,200$ and sold it for $₹ 1,500$. Find his profit/loss percentage.
Ans
X $1.3 \%$ profit
X 2. 15\% profit
X $3.30 \%$ loss
4. $25 \%$ profit
Q. 69435 is added to 7593 , then 2607 is subtracted from the sum. The result is divisible by:

Ans
$\times 1.4$
X 2.10

- 3.3
$\times 4.5$
Q. 7 In a $\triangle X Y Z, X O$ is the median and $X O=\frac{1}{2} Y Z$. If $\angle Y X O=30^{\circ}$, then what is the value of $\angle X Y Z$ ?

Ans

1. $15^{\circ}$
2. $90^{\circ}$
3. $30^{\circ}$
$4.60^{\circ}$
Q. 8 Find the LCM of 186.6 and 373.2.

Ans
1.373.2
$\times 2.398 .2$
X 3.186 .6
4. 276.6
Q. 9 A copper sphere of diameter 18 metre is drawn into a cylindrical wire of length 12 metre. What is the radius of the wire?
Ans
$\times 1.5$ metre
2. 9 metre
3.3 metre
4. 12 metre
Q. 10 The length and breadth of a cuboid is increased by $20 \%$ and $25 \%$, respectively, while its height is reduced by $30 \%$. What must be the total percentage increase/decrease in the volume of the cuboid?

Ans

1. Increase by 5\%
2. Increase by $3 \%$
3. Decrease by $2 \%$
4. Decrease by $4 \%$
Q. 11 Find the fourth proportional to the numbers 24, 192 and 27.

Ans

1. 216
2. 108
3. 162
4. 170.67
Q. 12 The following bar graph shows the sales of books (in thousands) from six branches of a publishing company during two consecutive years 2018 and 2019.


What is the average sales of all the branches (in thousands) for the year 2018?
Ans
$\times 1.84$
X 2.78

- 3.80
$\times 4.86$
Q. 13 The below bar graph represents the number of students who qualified in the GATE exam, the GMAT exam, the CAT exam and those who qualified in none of these exams. (Given that there are no students who passed two or more exams.)


The percentage of students who qualified in at least one of the three exams in 2018 was:
Ans
, 1. $72.72 \%$
$\times 2.77 .67 \%$
$\times 3.83 .83 \%$
$\times 4.67 .67 \%$
Q. 14 The pie chart given below shows the number of television sold by 8 different companies. The total number of television sold by all these 8 companies is 21000 . The number of television sold by a particular company is shown as a percent of total number of television sold by all these 8 companies.


J 1 = The value of average number of television sold by $P$ and $W$.
$\mathrm{J} 2=$ The value of average number of television sold by $\mathbf{Q}, \mathrm{R}, \mathrm{S}$ and V . What is the value of $(\mathrm{J} 2-\mathrm{J} 1)$ ?
Ans
$\times 1.5630$
2. 2046
3. 11025
4. 3260
Q. 15 The length of the altitude of an equilateral triangle is $6 \sqrt{3} \mathrm{~m}$. The perimeter of the equilateral triangle (in $m$ ) is:

Ans
$\times 1.12 \sqrt{2}$
$\times$ 2. $36 \sqrt{2}$

- 3. 36

X4. $24 \sqrt{3}$
Q. $16 \cos \left(30^{\circ}+\theta\right)-\sin \left(60^{\circ}-\theta\right)=$ $\qquad$ .

Ans
X 1. $\frac{\sqrt{3}}{2}$
2. 0
$\times 3 . \frac{1}{2}$
X4. $\frac{1}{\sqrt{2}}$
Q. 17 A starts from a point at a speed of $34 \mathrm{~m} / \mathrm{s}$. After 5 seconds, B starts chasing A from the same point at a speed of $44 \mathrm{~m} / \mathrm{s}$. What will be the distance travelled by B before $A$ is caught by B?

Ans

1. 748 metres
2. 862 metres
3. 675 metres
4.549 metres
Q. 18 The average of the first 7 non-zero multiples of 17 is:

Ans
X 1.67
2. 68
3. 69
4. 66
Q. 19 Find the value of the following expression.
$5\left(\sin ^{4} \theta+\cos ^{4} \theta\right)+3\left(\sin ^{6} \theta+\cos ^{6} \theta\right)+19 \sin ^{2} \theta \cos ^{2} \theta$
Ans

1. 8
$\times 2.5$
$\times 3.6$
$\times 4.7$
Q. 20 What is the total surface area of a cone, if the slant height and radius of a cone is 30 cm and 14 cm , respectively?

Ans

- $1.1980 \mathrm{~cm}^{3}$

2. $1963 \mathrm{~cm}^{3}$
3. $1908 \mathrm{~cm}^{3}$
4. $1936 \mathrm{~cm}^{3}$
Q. 21 What annual instalment will discharge a debt of Rs.9,600 due in 5 years at $10 \%$ simple interest?
Ans
X 1. Rs. 1450
X 2.Rs. 1550
X 3. Rs. 1500
5. Rs. 1600
Q. 22 Simplify $\sqrt{36 x^{2}-108 x+81}$

Ans
-1.6x-9
X2. $2 \mathrm{x}-9$
X $3.5 x-9$
4. $3 x-3$
Q. 23

What will be the value of $\frac{\tan 45^{\circ}-\tan 15^{\circ}}{1+\tan 45^{\circ} \tan 15^{\circ}}$ ?
Ans

1. $\sqrt{3}$
2. $\frac{1}{\sqrt{2}}$
3. $\frac{1}{\sqrt{3}}$
4. $\sqrt{2}$
Q. 24 If $\sin \theta=\frac{3}{5}$, then what is $\tan \theta$ ?

Ans
X 1. $\frac{3}{5}$
2. $\frac{4}{3}$
3. $\frac{4}{5}$
4. $\frac{3}{4}$
Q. 25 What will be the cost price of the goods if a shopkeeper allows a discount of $10 \%$ on the marked price of Rs. 100 and gains $8 \%$ (rounded off to the nearest integer)?
Ans

1. Rs. 83
2. Rs. 86
3. Rs. 87
4. Rs. 81

Section : English Comprehension
Q. 1 Choose the correct meaning of the given idiom.

Turn over a new leaf
Ans

1. To begin again
2. To stop finally
3. To plant a tree
4. To take a break
Q. 2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.The principal wished the students continued to aim for perfection in their future endeavours.
B.The principal also lauded educators for their tireless efforts to educate students and inspire them to come up with new ideas.
C.Our college's principal delivered an excellent speech in which he lauded the pupils.
D.The principal mentioned how teaching assistants assisted students in resolving academic and social challenges.
Ans
$\times 1$. ABCD

- 2. CDBA

X 3. CABD
4. DBAC
Q. 3 Select the most appropriate meaning of the underlined idiom in the given sentence.

A fair-weather friend can never be trusted in the times of exigency.
Ans
$\times 1$. A close friend
X 2. A pen friend
3. A selfish friend
4. An old acquaintance
Q. 4 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

Bobo was / very richer than Jim / as he had illicitly accumulated / all his wealth.
Ans

1. very richer than Jim
2. all his wealth.
3. as he had illicitly accumulated
4. Bobo was
Q. 5 Select the most appropriate option that can substitute the underlined segment in the given sentence.
Unemployment has become a fiery question of the day.
Ans
5. become a burning question
6. become a freezing question
7. become a furious question
8. become a flaming question
Q. 6 Select the most appropriate ANTONYM of the word 'PENNILESS' from the given sentence.

Living in a house with a spacious lawn a proper parking space and a nice swimming pool is still a dream for many rich people in Mumbai.
Ans

1. Rich
2. Space
3. Spacious
4. Dream
Q. 7 Select the option that is similar in meaning to the underlined word.

He gave a concise explanation of the company's retirement plan.
Ans
X 1. Clear
X 2. Verbose
3. Terse
4. Sharp
Q. 8 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
They all, except Shirin, were very sad / during the farewell party given / to the teacher retiring, and her / indifference were well noticed.
Ans
X 1. They all, except Shirin, were very sad
X 2. during the farewell party given
2. indifference were well noticed
$\times 4$. to the teacher retiring, and her
Q. 9 Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully:
Estella had hardly heard the news (after) she began to weep.
Ans
X 1. while
2. well
3. than
4. when
Q. 10 Select the most appropriate ANTONYM of the given word.

Accept
Ans
X 1. Agree
X 2. Respond
2. Deny

X 4. Confirm
Q. 11 Select the most appropriate option to fill in the blank.

I am $\qquad$ after five years.
Ans

1. making an exam
2. taking an exam

X 3. keeping an exam
X4. frying an exam
Q. 12 Select the most appropriate option to replace the underlined segment in the given sentence.
They spoke about the political turmoil in the state.
Ans
X 1. expressed
X 2. said
3. talked

X 4. stated
Q. 13 Select the correct active form of the given sentence.

Luckily, the machinery was not used by them.
Ans
X 1. Luckily, they had not used the machinery.
2. Luckily, they did not used the machinery.

X 3. Luckily, they have not used the machinery.
X 4. Luckily, I did not used the machinery.
Q. 14 Select the most appropriate option to fill in the blank and complete the collocation.

Happiness can be spread by being grateful or $\qquad$ compliments to someone.
Ans
X 1. giving
2. paying
3. accepting
4. sharing
Q. 15 Parts of the given sentence have been given as options. One of them contains a spelling error. Select the option that rectifies the error.

In research done by an online publecation it was found that the most popular password is $\mathbf{1 2 3 4 5 6 !}$
Ans

1. publication
2. password
3. research
4. popular
Q. 16 Select the correct active form of the given sentence.

You are asked to tell the plumber to mend all the pipes.
Ans $\times 1$. Command the plumber mending all the pipes.
2. Tell the plumber to mend all the pipes.
3. All the pipes must be mend.
4. Tell the plumber mending all the pipes.
Q. 17 Select the option that can be used as a one-word substitute for the given group of words.

Holding on to something or keeping an opinion with determination
Ans
X 1. Gracious
2. Tenacious

X 3. Obnoxious
4. Loquacious
Q. 18 Parts of the following sentence have been given as options. Select the option that contains a grammatical error. If you don't find any error, mark 'No error' as your answer.

Her concerts / are very admired / by the foreigners / no error.
Ans

1. are very admired
2. by the foreigners.
3. No error
4. Her concerts
Q. 19 Select the INCORRECTLY spelt word.

Ans
X 1. Sabbatical
X 2. Confluence
3. Sinhaleese
4. Conform
Q. 20 Select the most appropriate ANTONYM of the word vivid from the given sentence: In my murky memory lane, I still could vividly apprehend and envision the pictures of Nischindipu while reading Bibhutibhushan Bandyopadhyay's "Pather Panchali"
Ans
X 1. perceive
X 2. apprehend
3. murky
4. envision

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The thing nodded vigorously; as it nodded, the left button-eye fell off and (1) $\qquad$ (2)
the concrete floor. The thing looked around (3) $\qquad$ with its one eye, as if it had
$\qquad$ The thing twisted bonelessly (4) $\qquad$ its one eye was again facing her. And it (5)
$\qquad$ across the cellar towards her then.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. clattered
2. hissed
3. fizzed
4. buzzed

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The thing nodded vigorously; as it nodded, the left button-eye fell off and (1) $\qquad$ (2) the concrete floor. The thing looked around (3) $\qquad$ with its one eye, as if it had lost her. The thing twisted bonelessly (4) $\qquad$ its one eye was again facing her. And it (5)
$\qquad$ across the cellar towards her then.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. up
$\times$ 2. to
X 3. at

- 4 . on to


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The thing nodded vigorously; as it nodded, the left button-eye fell off and (1) $\qquad$ (2) the concrete floor. The thing looked around (3) $\qquad$ with its one eye, as if it had
The thing twisted bonelessly (4) $\qquad$ its one eye was again facing her. And it (5)
$\qquad$ across the cellar towards her then.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans $\quad \times 1$. wittily
X 2. ferociously
3. vacantly

X4. involuntarily

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The thing nodded vigorously; as it nodded, the left button-eye fell off and (1) $\qquad$ (2) the concrete floor. The thing looked around (3) $\qquad$ with its one eye, as if it had
$\qquad$ . The thing twisted bonelessly (4) $\qquad$ its one eye was again facing her. And it (5)
$\qquad$ across the cellar towards her then.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. unless
2. until

X 3. ever after
$\times 4$. even so

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The thing nodded vigorously; as it nodded, the left button-eye fell off and (1) $\qquad$ (2)
$\qquad$ the concrete floor. The thing looked around (3) $\qquad$ with its one eye, as if it had $\overline{\text { lost her. The thing twisted bonelessly (4) }}$ $\qquad$ its one eye was again facing her. And it (5)
$\qquad$ across the cellar towards her then.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
$X 1$. hung
X 2. rung
3. lunged
$\times 4$. flung

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Perecherla |
| Exam Date | 07/12/2022 |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 In a certain code language, 'NUMEROUS' is written as 'WPGOQTUW' and 'OPTIONAL'
is written as 'RQKVPQNC'. How will 'NOTEBOOK' be written in that language?
Ans

1. QPGVQDMQ
2. QPGVQDNQ
3. QPGVDQMQ
4. QPVGQDMQ
Q. 2 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All F are K.
II. All W are K.

Conclusions:
I. All W are F.
II. Some K are not W.
III. Some F are W.

Ans
X 1. Both conclusions I and III follows
2. Both conclusions II and III follows
3. Only conclusion I follows
4. Neither conclusion follows
Q. 3 Which two signs should be interchanged to make the given equation correct? $16+4 \div 2$ * $12-4=40$

Ans

1.     + and *
2.     + and -
3. $\div$ and *
4. $\div$ and +
Q. 4 Select the figure that will come next in the following figure series.


Ans

Q. 5 In a certain code language, 'ARTIST' is written as 'ASTITT' and 'ADVICE' is written as 'AEVIDE'. How will 'ASPECT' be written in that language?
Ans
X 1. ATEPDT
X 2. ATQFDT
3. ATPEDT

X 4. ATPECT
Q. 6 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(42,18,3)$
$(36,14,4)$
Ans

- 1. $(34,13,4)$

X 2. $(50,20,4)$
X $3 .(46,18,4)$
X 4. $(42,15,5)$
Q. 7 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
144:36::81: ? :: 196 : 42
Ans
$\times 1.30$
$\times 2.23$

- 3.27
$\times 4.29$
Q. 8 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$20-10 \times 342 \div 19+51=211$
Ans

1. 51 and 20, - and +
2. 20 and 342 , - and $\div$
3. 10 and $20,-$ and $\times$

X4. 19 and $342, \times$ and $\div$
Q. 9 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Time : Second :: Electric Current : ?
Ans

1. Ampere
2. Kelvin
3. Candela

X 4. Mole
Q. 10 Select the figure that will come next in the following figure series.


Ans

Q. 11 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Horizonal : Vertical
Ans
X 1. Smart: Intelligent
2. Humid : Dry

X 3. Include: Involve
4. Exit : Leave
Q. 12 In the following question, select the missing number from the given series.

17, 34, 51, ?, 85, 102
Ans

1. 68
2. 70
3. 74
<4.78
Q. 13 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:

- All Tim are Jack.
- No Jack is Ben.
- Some Ben is Ruth.

Conclusions:
I. No Ruth is Jack.
II. Some Ben are Jack.
III. No Ben is Tim.

Ans
X 1 . Only conclusion I and II follow
2. Only conclusion III follows
3. Only conclusion I follows
4. Only conclusion I and III follow
Q. 14 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
MOR, SXE, YGR, EPE, ?
Ans

- 1.KYR

X 2. NRQ
X 3. NRM
X 4. KMR
Q. 15 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown below.

Q
Ans
$x_{1}$.JUFTHDOUHT
x.」.J.7THDOUHT
x. J87THDUOHT

* JеэTHDUOHT
Q. 16 By interchanging the given two signs which of the following equation will be correct?
+ and -
Ans
< $1.7-5 \times 3+24 \div 6=7$

2. $20 \div 4-5 \times 6+3=32$

X $3.4+5 \times 2-9 \div 3=5$
X $4.7 \times 3-10+8 \div 2=29$
Q. 17 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans
$\times 1.11-23$

* 2.9-16

3. $25-51$
4. 13-27
Q. $18 A+B$ means ' $A$ is the father of $B$ '
$A$ - $B$ means ' $A$ is the mother of $B$ '
$A$ * $B$ means ' $A$ is the sister of $B$ '
$A \% B$ means ' $A$ is the husband of $B$ '
If $A \% B-C+D$ * , then how is $A$ related to $E$ ?
Ans
5. Father's father
6. Brother
7. Father's brother
8. Father-in-law
Q. 19 Three different positions of the same dice are shown (figures 1 to 3). Find the number on the face opposite to the face having ' 5 '.

figure 1

figure 2

figure 3

Ans
$\times 1.4$
$\times 2.3$
$\times 3.6$

- 4.1
Q. 20 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. KPW

2. QGM

X 3. DIP
X 4. SXE
Q. 21 Which of the following letters will replace the question mark (?) and complete the letter series?
J, D, X, R, L, ?
Ans
1.F
$\times 2$. D
X 3 . E
$\times 4 . \mathrm{G}$
Q. 22 If $A+B$ means that $A$ is the father of $B, A \times B$ means that $A$ is the mother of $B, A-B$ means that $A$ is the brother of $B$ then which of the following expression shows that $P$ is the paternal grandmother of $R$ ?
Ans
$X 1 . Q \times P+R$
X2. $\mathrm{P} \times \mathrm{Q}-\mathrm{R}$
X 3. $P+R \times Q$
4. $P \times Q+R$
Q. 23 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(4,50,6)$
$(13,128,3)$
Ans
X 1. $(12,60,5)$
2. $(2,125,3)$
3. $(2,62,6)$
4. $(15,162,3)$
Q. 24 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1-Submerse
2- Sublimity
3-Submerge
4- Submit
5-Submarine
Ans
X 1.5,3, 2, 4, 1
X 2. 2, 5, 4, 1, 3
X $3.2,3,5,1,4$
4. 2, 5, 3, 1, 4
Q. 25 Select the option in which the given figure is embedded. (Rotation is NOT allowed)


Ans

- 1. 


$\times 2$.

$\times 3$.

$\times 4$.


Section : General Awareness
Q. 1 Which of the following is a characteristic of sedimentary rocks?

Ans
X 1. Lineation
X 2. Bands
X 3. Foliation
4. Lithification
Q. 2 Which of the following countries was the host of the ICC Men's T20 World Cup, 2021?

Ans
X 1. West Indies And USA
X 2. Australia and New Zealand
3. UAE and Oman

X4. England and Scotland
Q. 3 In rainforests which kind of cultivation is practices?

Ans
X 1. Dry farming
X 2. Vertical farming
X 3. Terrace farming
4. Slash and burn
Q. 4 Who has been elected the 14th Vice President of India?

Ans
X 1. Pratibha Banerjee
2. Jagdeep Dhankhar
3. Margaret Alva
4. Venkaiah Naidu
Q. 5 In which state is the festival of Gudi Padwa specially celebrated?

Ans

1. Maharashtra
2. Punjab
3. Goa
4. Odisha
Q. 6 Who among the following became one of the Deputy Chief Ministers of Uttar Pradesh in March 2022?

Ans

1. Brajesh Pathak
2. Swatantra Dev Singh
3. Laxmi Narayan Chaudhary
4. Jayveer Singh
Q. 7 The birthday of Prophet Muhammad is also celebrated by the name of $\qquad$ -
X 1. Eid-ul-Fitr
5. Ramadan
6. Eid-ul-Adha
7. Mawlid al-Nabi
Q. 8 Which of the following functions of government budget is associated with distribution of income?
I. Allocation function
II. Redistribution function

Ans
X 1. Only 1
2. Neither I nor II
3. Both I and II
4. Only II

## Q. 9 Identify the correct statement about green algae.

Ans $\times 1$. Green algae usually have a soft cell wall made of an inner layer of pectose.
2. Green algae usually have a rigid cell wall made of an inner layer of protein and an outer layer of fibre.
3. Green algae usually have a rigid cell wall made of an inner layer of cellulose and an
outer layer of pectose.
4. Green algae usually have a rigid cell wall made of an inner layer of fat and an outer layer of protein.
Q. 10 Dhondo Keshav Karve was an eminent Indian who championed the cause of

Ans
$\qquad$

1. allowing child marriages
2. prohibiting widow remarriages
3. strengthening the caste norms
4. spread of women education
Q. 11 Which of the following is potash alum?

Ans
$X 1 . \mathrm{Na}_{2} \mathrm{SO}_{4} \mathrm{Al}_{2}\left(\mathrm{SO}_{4}\right)_{3} .24 \mathrm{H}_{2} \mathrm{O}$
2. $\mathrm{K}_{2} \mathrm{SO}_{4} \mathrm{Al}_{2}\left(\mathrm{SO}_{4}\right)_{3} .24 \mathrm{H}_{2} \mathrm{O}$
$X$ 3. $\mathrm{K}_{2} \mathrm{SO}_{4} \mathrm{Al}_{2}\left(\mathrm{SO}_{4}\right)_{3} \cdot 12 \mathrm{H}_{2} \mathrm{O}$
X 4. $\mathrm{Na}_{2} \mathrm{SO}_{4} \mathrm{Al}_{2}\left(\mathrm{SO}_{4}\right)_{3} \cdot 20 \mathrm{H}_{2} \mathrm{O}$
Q. 12 Clove is an $\qquad$ indicator.
Ans
$\times 1$. Chemical
2. Olfactory

X 3. Universal
X 4. Gustatory
Q. 13 Which of the following sports was initially known as Poona?

Ans

1. Badminton

X 2. Baseball
X 3. Volleyball
X 4. Kho-Kho
Q. 14 Rajiv Kumar assumed charge as the $\qquad$ Chief Election Commissioner of India in May 2022.
Ans

- 1.25 th
$\times 2.20$ th
X 3.27th

4. 23 rd
Q. 15 $\qquad$ was conferred with 'Officier de la Legion d'Honneur', France's highest civilian award, in 2009.

Ans
X 1. Asha Bhosale
2. Lata Mangeshkar
3. S.Janaki
4. K.S.Chithra
Q. 16 Who has taken charge as India's new Foreign Secretary in May 2022?

Ans
X 1. Rajeev Kumar
2. Vinay Mohan Kwatra
3. TV Somanathan
4. Rakesh Mishra
Q. 17 Which of the following region was the capital of the Chalukyas?

Ans
X 1. Kanchipuram
2. Raichur
3. Aihole
4. Kolar
Q. 18 What is the purpose of the Licensing Policy in India?

Ans $\times 1$. To promote benefits to a particular group
X 2. To maintain the identity of an area
X 3. To show power of the government
4. To promote regional equality
Q. 19 Wood's Despatch is related with $\qquad$ .

Ans

1. Education

X 2. Famine
3. Trade
4. Military
Q. 20 When did the Indian Independence Act receive the British royal assent?

Ans

1. July 1947
2. June 1947
3. May 1947
4. August 1947
Q. 21 Which Indian music director was awarded Japan's Fukuoka prize - 2016 for his outstanding contribution in creating, preserving and showcasing South Asian traditional fusion music?
Ans
X 1. Vishal Bharadwaj
X 2. Pritam Chakraborty

- 3. AR Rahman

X 4. MM Keeravani
Q. 22 The official enumeration of population done periodically is called $\qquad$ _.
Ans

1. Census

X 2. demographic count
X 3. Estimation
X 4. Record
Q. 23 Chemical formula of bleaching powder is $\qquad$ _.
Ans

1. $\mathrm{CaOCl}^{2}$
2. CaO
3. $\mathrm{CaCO}^{3}$
4. $\mathrm{Ca}(\mathrm{OH})^{2}$
Q. 24 Every law enacted by the government has to be in conformity with the

Ans
X 1. Fundamental Right
2. Directive Principles
3. Constitution
4. Preamble
Q. 25 Which of the following is a tree found in Mountain vegetation?

Ans
$X 1$. Sundari
X 2. Keekar
3. Chir

X4. Teak

Section : Quantitative Aptitude
Q. 1

If $4 \tan \theta=3$, then $\frac{4 \sin \theta-\cos \theta+1}{4 \sin \theta+\cos \theta-1}=$ $\qquad$ -

Ans

1. $\frac{14}{11}$
2. $\frac{12}{11}$
3. $\frac{10}{11}$
4. $\frac{13}{11}$
Q. 2 The percentage distribution of employees in different categories in a company is shown by the following pie chart.

Percent distribution of employees


What is the central angle corresponding to the employees of Group-B?
Ans
$\times 1.130^{\circ}$
$\times 2.120^{\circ}$
2. $126^{\circ}$
$\times 4.136^{\circ}$
Q. 3 The volume of the sphere is $38,808 \mathrm{~cm}^{3}$. What is the surface area of the sphere?

Ans
$\times 1.4455 \mathrm{~cm}^{2}$
$\times 2.4433 \mathrm{~cm}^{2}$

- 3.5544.cm ${ }^{2}$
$\times 4.3344 \mathrm{~cm}^{2}$
Q. 4 If $x+\frac{1}{x}=7$, find the value of $x^{3}+\frac{1}{x^{3}}$.

Ans $\times 1.343$
2. 322
$\times 3.340$
$\times 4.332$
Q. 5 If $\tan A=10 / 15$, then what will be the value of $\cos ^{2} A$ ?

Ans
X 1.59/269
X 2. 49/269
3.69/269

X4.169/269
Q. 6 If $(a+1)^{2}+(a+2)^{2}=16$ then what is the value of $40+12 a+4 a^{2}$ ?

Ans
$\times 1.56$
2.62
$\times 3.74$
4.52
Q. 712 men and 12 women can complete a piece of work in 9 days. 6 men and 15 women can complete the same work in 12 days. How long (in days) would it take 9 women to complete half the work?
Ans

1. 36
2. 12
3. 18
4. 24
Q. 8 The radius of a hemisphere is 5.6 cm . What will be its volume?

Ans

1. $367.95 \mathrm{~cm}^{3}$
2. $195.95 \mathrm{~cm}^{3}$
3. $380 \mathrm{~cm}^{3}$
4. $265.65 \mathrm{~cm}^{3}$
Q. 9 Two trains are moving in the same direction at the speed of $36 \mathrm{~km} / \mathrm{hr}$ and $48 \mathrm{~km} / \mathrm{hr}$. The time taken by faster train to cross a man sitting in the slower train is 33 seconds. What will be the length of the faster train?
Ans
5. 770 metres
6. 90 metres
7. 110 metres
8. 180 metres
Q. 10 If $\tan \theta+\cot \theta=12$, then $\tan ^{2} \theta+\cot ^{2} \theta$ is:

Ans
X 1.66
$\times 2.128$

- 3.142
$\times 4.132$
Q. 11 The following table shows the production of different types of two wheelers from 1993 to 1998.

Number of two wheelers (in 1000s)

| Type Year | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A | 36 | 34 | 40 | 35 | 37.5 | 40 |
| B | 20 | 22 | 25 | 23 | 19.5 | 18 |
| C | 14 | 22 | 16 | 25 | 29 | 35 |
| D | 60 | 62 | 67.5 | 75 | 76 | 80 |
| E | 40 | 45 | 48 | 50 | 80 | 105 |
| F | 45 | 52 | 55 | 60 | 57.5 | 56 |
| Total | 215 | 237 | 251.5 | 268 | 299.5 | 334 |

In which year is the percentage increase in the total production minimum in comparison to the previous year?
Ans
$\times 1.1994$
2. 1995
$\times 3.1996$
X4. 1997
Q. 12 Which of the following statement is correct?
I. If $\mathrm{K}+\frac{1}{\mathrm{~K}}=12$, then $\mathrm{K}^{2}+\frac{1}{\mathrm{~K}^{2}}=142$
II. The value of $\left(k^{2}+\frac{1}{k^{2}}\right)\left(k-\frac{1}{k}\right)\left(k^{4}+\frac{1}{k^{4}}\right)\left(k+\frac{1}{k}\right)$ is
$\mathrm{k}^{16}-\frac{1}{\mathrm{k}^{16}}$.
Ans

1. Only I

X 2. Neither I nor II
X 3. Both I and II
4. Only II
Q. 13

Study the table and answer the question.

| Maximum <br> Marks $\rightarrow$ | Shemistry <br> 300 | Mathematics <br> 300 | Physics <br> 150 | Hindi <br> 300 | English <br> 200 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 60 | 85 | 90 | 80 | 65 |
| Raju | 60 | 70 | 60 | 75 | 65 |
| Shyamu | 65 | 75 | 80 | 65 | 85 |
| Mohan | 70 | 65 | 60 | 85 | 80 |
| Shobh | 60 | 75 | 70 | 60 | 75 |
| Sushil | 65 | 50 |  |  |  |

Percentage of marks obtained by 5 students in different subjects.
Marks obtained by Sushil in English is less/greater than that by Shyamu is:
Ans

1. 10 less
2. 15 more
3. 20 more
4. 25 less
Q. 14 Find the remainder when we divide $3 x^{4}-2 x^{2}+4 x-1$ by $2 x-1$.

Ans
$\times 1.2$
2. 3
3. $\frac{11}{16}$
4. $\frac{15}{16}$
Q. 15

In the given figure, $O$ is the centre of the circle and $\angle A O C=140^{\circ}$. Find $\angle A B C$.


Ans
$\times 1.95^{\circ}$
2. $110^{\circ}$

X 3. $120^{\circ}$
$\times 4.103^{\circ}$
Q. 16 Three candidates were participating in an election. The person at third place got $\mathbf{2 0 \%}$ of the total votes while the difference between the votes of the winner and the first runner up was $\mathbf{2 0 \%}$ of the total votes. If the difference between the votes of the first runner up and the second runner up was 37,000 , how many votes did the winner receive?

Ans
X 1.1,80,000
2. 1,85,000
(3.1,75,000

X4.1,95,000
Q. 17 If in a triangle $A B C$ as drawn in the figure, $A B=A C$ and $\angle A C D=130^{\circ}$, then $\angle \mathrm{B} A \mathrm{C}$ is equal to:


Ans
$\times 1.60^{\circ}$
$\times 2.50^{\circ}$
$\times 3.70^{\circ}$
2. $80^{\circ}$
Q. 18 Ramesh claims that he is selling onions at Rs. 36 per kg , which costs him Rs. 40 per kg , but he gives $\mathbf{8 0 0}$ grams instead of $1 \mathbf{k g}$. Find Ramesh's percentage gain or loss.

Ans
X 1. Gain 13.5\%

- 2. Loss $13.5 \%$

3. Loss 12.5\%
4. Gain 12.5\%
Q. 19 At a Christmas sale, all the goods in a shop are on sale at $30 \%$ discount. If Jasmine buys a skirt marked at ₹800, how much would she need to pay?

Ans
X 1. ₹476
2. ₹ 400
3. ₹ 770
4. ₹560
Q. 20 Find the mean proportional between 27 and 300.

Ans

- 1.90
$\times 2.45$
X 3.135
< 4.180
Q. 21 Find the simple interest on ₹ 2,700 for 8 months at 5 paisa per rupee per month?

Ans
$X$ 1. ₹950
$\times 2$. ₹720
X 3. ₹540
4. ₹ 1,080
Q. 22 The average weight of apples in a basket is 50 kg .6 more apples with the average weight of 60 kg are added in the basket. If the average weight of the basket is increased by 5 kg , then find the number of apples in the basket originally.
Ans
X1.4
2.6
$\times 3.2$
<4.8
Q. 23 If the HCF of two numbers is 8, then which of the following can NEVER be their LCM?

Ans
$\times 1.56$
$\times 2.48$

- 3.42
$\times 4.40$
Q. 24 If the side of an equilateral triangle is 8 cm , then find the area of the triangle (correct to two decimal places).
Ans
$\times 1.27 .17 \mathrm{~cm}^{2}$

2. $27.27 \mathrm{~cm}^{2}$
3. $27.71 \mathrm{~cm}^{2}$
4. $27.72 \mathrm{~cm}^{2}$
Q. 25 The table given below shows the foreign trade by two countries in 5 different years.

|  | Country |  |
| :---: | :---: | :---: |
| Years | P | Q |
| Y1 | 220 | 95 |
| Y2 | 200 | 155 |
| Y3 | 125 | 245 |
| Y4 | 115 | 225 |
| Y5 | 85 | 140 |

What is the value of average foreign trade by country $P$ in all the 5 years?
Ans
$\times 1.155$
$\times 2.745$

- 3.149
$\times 4.135$


## Section : English Comprehension

Q. 1 Rectify the sentence by selecting the correct spelling of the underlined word.

The nine-tailed fox is a mythicil creature from Japanese culture.
Ans

1. mythycal
2. mitical
3. mythical
4. mithical
Q. 2 Select the correct active form of the given sentence. How his problems will be fixed by you?
Ans
X 1. How are you fixing his problems?
5. How you fix his problems?
6. How will you fix his problems?
7. How his problems fixed?
Q. 3 Complete the following collocation.

It is easier to make a promise than to $\qquad$ a promise.
Ans

1. maintain
2. follow
3. justify
4. keep
Q. 4 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

He was / paid handsomely for / his ability to handle / the crowd skillful.
Ans
X 1. paid handsomely for
X 2. his ability to handle
3. the crowd skillful.

X4. He was
Q. 5 Select the correct passive form of the given sentence. She will present the paper next week.
Ans $\times 1$. The paper could be presented next week by her.
2. The paper will be presented next week by her.

X 3. The paper would be presented next week by her.
X 4. The paper can be presented next week by her.
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

A perfectionist
Ans

1. Meticulous
2. Omniscient
3. Optimist
4. Ambidextrous
Q. 7 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.A certain aim will infuse one's life with new meaning.
B.At some point, an aimless person's goals can be shattered and remain unfulfilled.
C.In life, it is critical to have a workable objective or goal.
D.A man who is aimless will never achieve success in life.

Ans
X 1. DCAB
X 2. BCDA
3. ADCB
4. DBCA
Q. 8 Select the most appropriate synonym of the underlined word.

Never teach your children to flout the rules and regulations of their educational institution.
Ans
X 1. Monitor
2. Revere
3. Divulge
4. Mock
Q. 9 Select the most appropriate option that can substitute the underlined segment in the given sentence.
The yellow dress purchased by you is not much different than the one I have brought.
Ans
X 1. different then the one
2. different as the one
3. different above the one
4. different from the one
Q. 10 Select the most appropriate ANTONYM of the underlined word.

An autoimmune disease is a condition in which your immune system mistakenly attacks your body.

Ans

1. Susceptible
2. Fragile
3. Sick
4. Sedentary
Q. 11 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

There are many people in the world who believe that the earth is flat.
Ans
$\times 1$. who belief that
X 2. who should believe that
2. No substitution

X 4. who believed
Q. 12 Select the most appropriate option that can substitute the underlined segment in the given sentence.
Mr. Alfred hasn't thought of his friend since he went abroad. Out of sight, out of mind.
Ans
X 1. Once you leave the country, your memories vanish
X 2. He lost his memory, as he could not see
3. If you do not see someone, you forget about them.

X 4. He simply forgot
Q. 13 Select the correct direct form of the given sentence. We asked them who had called them.

Ans $\quad \times 1$. We said to them, "Who are calling you?"
2. We said to them, "Who calls you?"
3. We said to them, "Who has called him?"
4. We said to them, "Who has called you?"
Q. 14 Select the most appropriate synonym of the word 'obscene' from the following sentence.

Vijay was suspended from duty because he gave dirty and prejudiced remarks to his female colleagues in the office.

Ans

1. Dirty
2. Suspended
3. Prejudice
4. Colleagues
Q. 15 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

He does not / know how to / draw quickly / and straightly.
Ans

1. and straightly
2. He does not

X 3. know how to
4. draw quickly
Q. 16 Select the sentences that contains no spelling errors.

Ans $\quad$ 1. Ryan squaked about losing his job owing to a leg injury.
X 2. Ryan squeked about losing his job owing to a leg injury.
3. Ryan squawked about losing his job owing to a leg injury.

X 4. Ryan skuawked about losing his job owing to a leg injury.
Q. 17 Select the most appropriate option to fill in the blank. In all her sorrow she must weep or she will $\qquad$ .

Ans
X 1. die
$X$ 2. laugh
3. suffer
$\times 4$. cry
Q. 18 Select the most appropriate ANTONYM of the underlined word.

The antonym of a word is sometimes a prefix added to the actual word.
Ans
X 1. metaverse
2. synonym
$X$ 3. symphony
X 4. metonymy
Q. 19 Substitute the underlined words with the option that is closest in meaning to it.

Give us some room for improvement.
Ans

1. an opportunity for improvement
2. room in a house for improvement
3. advice for improvement
4. a warning for improvement
Q. 20 Select the most appropriate option to fill in the blank.

The health personnel advised to $\qquad$ of unhealthy food habits if we want to maintain our cardio-vascular health.

Ans

1. pay lip service
2. keep the pot boiling
3. run short
4. steer clear

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Our beautiful ecosystem is being systematically (1) $\qquad$ by industrial pollution channelled into rivers like the Ganga and the Yamuna, nuclear wastes from atomic plants muted into the world's oceans, and (2) $\qquad$ gases such as carbon dioxide mixed with the ozonosphere Besides, tropical rainforests and green pastures are disappearing (3) $\qquad$ the pressure of a proliferating population. Dams are being (4) $\qquad$ over the rivers like the Narmada to change nature's well-balanced surface equations between flora and fauna, and sloping mountainous terrain is being converted into mini oceans to supply electricity to the ever-starving industrial stomach of our age. Elephants, tigers, the wild rhinos of South Africa and many other forest creatures have become (5) $\qquad$ species.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. damaged
2. oriented
3. glorified
4. designed

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Our beautiful ecosystem is being systematically (1) $\qquad$ by industrial pollution channelled into rivers like the Ganga and the Yamuna, nuclear wastes from atomic plants muted into the world's oceans, and (2) $\qquad$ gases such as carbon dioxide mixed with the ozonosphere. Besides, tropical rainforests and green pastures are disappearing (3) $\qquad$ the pressure of a proliferating population. Dams are being (4) $\qquad$ over the rivers like the Narmada to change nature's well-balanced surface equations between flora and fauna, and sloping mountainous terrain is being converted into mini oceans to supply electricity to the ever-starving industrial stomach of our age. Elephants, tigers, the wild rhinos of South Africa and many other forest creatures have become (5) $\qquad$ species.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

1. poisonous
2. useful
3. nuclear
4. hygienic

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Our beautiful ecosystem is being systematically (1) $\qquad$ by industrial pollution channelled into rivers like the Ganga and the Yamuna, nuclear wastes from atomic plants muted into the world's oceans, and (2) $\qquad$ gases such as carbon dioxide mixed with the ozonosphere Besides, tropical rainforests and green pastures are disappearing (3) $\qquad$ the pressure of a proliferating population. Dams are being (4) $\qquad$ over the rivers like the Narmada to change nature's well-balanced surface equations between flora and fauna, and sloping mountainous terrain is being converted into mini oceans to supply electricity to the ever-starving industrial stomach of our age. Elephants, tigers, the wild rhinos of South Africa and many other forest creatures have become (5) $\qquad$ species.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
$X 1$. in
$\times 2$. to
$X 3$. on
4. under

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Our beautiful ecosystem is being systematically (1) $\qquad$ by industrial pollution channelled into rivers like the Ganga and the Yamuna, nuclear wastes from atomic plants muted into the world's oceans, and (2) $\qquad$ gases such as carbon dioxide mixed with the ozonosphere. Besides, tropical rainforests and green pastures are disappearing (3) $\qquad$ the pressure of a proliferating population. Dams are being (4) $\qquad$ over the rivers like the Narmada to change nature's well-balanced surface equations between flora and fauna, and sloping mountainous terrain is being converted into mini oceans to supply electricity to the ever-starving industrial stomach of our age. Elephants, tigers, the wild rhinos of South Africa and many other forest creatures have become (5) $\qquad$ species.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. validated
2. built

X 3. detected
X4. associated

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Our beautiful ecosystem is being systematically (1)
by industrial pollution channelled into rivers like the Ganga and the Yamuna, nuclear wastes from atomic plants muted into the world's oceans, and (2) $\qquad$ gases such as carbon dioxide mixed with the ozonosphere. Besides, tropical rainforests and green pastures are disappearing (3) $\qquad$ the pressure of a proliferating population. Dams are being (4) $\qquad$ over the rivers like the Narmada to change nature's well-balanced surface equations between flora and fauna, and sloping mountainous terrain is being converted into mini oceans to supply electricity to the ever-starving industrial stomach of our age. Elephants, tigers, the wild rhinos of South Africa and many other forest creatures have become (5) $\qquad$ species.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans $\times 1$. accumulated
X 2. specified
3. endangered

X4. granted

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | ON Digital Zone iDZ Mancheswar |
| Exam Date | 07/12/2022 |
| Exam Time | $9: 00$ AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NTS, JZF, FFS, BLF, ?
Ans
$\times 1$. хмо
X 2. XMQ
3. XRS
4. XSM
Q. 2 After arranging the given words according to dictionary order, which word will come at 'Third' position?

1. Native
2. Nationality
3. Nation
4. National
5. Nationalism

Ans $\times 1$. Nationalism
2. Nation
3. National
4. Nationality
Q. 3 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
COMPLEX : OCXELPM :: BALANCE : ABECNAL :: AIRLINE : ?
Ans

1. IAENILR

X 2. RAINELI
X 3. ELNIIAR
4. ARLINEI

Q． 4 Three statements are given followed by three conclusions numbered I，II and III．
Assuming the statements to be true，even if they seem to be at variance with
commonly known facts，decide which of the conclusions logically follow（s）from the
statements．
Statements：
All bikes are cars．
Some cars are trucks．
All trucks are cycles．
Conclusions：
I．Some cars are cycles．
II．Some cycles are trucks．
III．Some bikes are trucks．
Ans $\times 1$ ．Only conclusions II and III follow．
2．Only conclusions I and III follow．
3．Only conclusions I and II follow．
$\times 4$ ．All conclusions follow．

Q． 5 Select the correct mirror image of the given combination when the mirror is placed at＇PQ＇as shown below．

## CYLINDE8

## Q

Ans
$\times$ 8ヨОИГЈҮว
＊8ヨロИІЈҮつ
x．ЯヨОИГ•ว
x．ЯヨОИІปҮว
Q. 6 Select the figure that will replace the question mark (?) in the following figure series.


Ans
$\times 1$.

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 7 Which letter cluster will replace the question mark (?) to complete the given series?

AZBY, BYCX, CXDW, ?, EVFU
Ans

1. DWEV

X 2. DVEW
3. DWFV
4. DVEU
Q. 8 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
(17, 24, 58)
(26, 37, 89)
Ans

1. $(15,17,47)$
2. $(41,39,125)$
3. $(10,20,44)$
4. $(21,38,96)$
Q. 9 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 5 '.


Figure 1
Figure 2
Figure 3
Ans
$\times 1.4$
2.3
$\times 3.6$
$\times 4.1$
Q. 10 In the following question, select the missing number from the given series.

480, 240, 120, 60, 30, ?
Ans
$\times 1.21$
2. 18
3. 15
4. 17
Q. 11 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(13,39,6)$
$(9,18,4)$
Ans

1. $(12,48,8)$
2. $(12,50,13)$
3. $(15,45,3)$
4. $(20,28,8)$
Q. 12 Which of the following interchanges of numbers would make the given equation correct?
$7 \times 4 \div 14+12+30=50$
Ans
$\times 1.12,14$
5. 7,14
6. 4,7
7. 30,50
Q. 13 Which figure should replace the question mark (?) if the series were to be continued?

|  |  | $C$ |  |  | $L$ |  |  | $X$ |  |  | $P$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $X$ | $\dot{z}$ | $P$ | $P$ | $C$ | $X$ | 3 | $\dot{z}$ | $C$ | $C$ | $X$ | 3 | $?$ |
| $L$ |  |  | $\dot{z}$ |  |  | $P$ |  |  | $\dot{z}$ |  |  |  |

Ans

$\times 2$.

$\times 3$


- 4. 


Q. 14 In a certain code language, 'CABLES' is written as 'ECDUGN' and 'PHONES' is written as 'RJQUGP'. How will 'MOBILE' be written in that language?
Ans
X 1. DQOKNG
$\times$ 2. OQDNKG
X 3. OQDKNG
4. OQDGNK

Q． 15 In the following question below are given some statements followed by some conclusions based on those statements．Taking the given statements to be true even if they seem to be at variance from commonly known facts．Read all the conclusions and then decide which of the given conclusion logically follows the given statements．
Statements：
I．Some table are chair．
II．No chair is stool．
Conclusion：
I．All chair are table．
II．Some chair are stool．
III．All table are stool．
Ans $\times 1$ ．Only conclusion I follows
2．All conclusion follows
X 3．Both conclusions II and III follows
4．Neither conclusion follows

Q． 16 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown．
$\left.\operatorname{tp} 7 d 43\right|^{M}$

Ans
$x$ 1．$\varepsilon \triangleright b 「 p 7$
X2． $\mathcal{E}$ ヤP「qJ
－3．$\varepsilon \Delta b \Gamma q J$
X4．$\varepsilon \Delta d \Gamma d J$

Q． 17 By interchanging the given two signs which of the following equation will be correct？

+ and $x$
Ans
X1．7＋5×2－8 $\div 4=36$
2． $95 \div 19+5 \times 3-6=22$
X $3.13+4 \times 5-6 \div 2=51$
X $4.4 \times 3+6-7 \div 1=18$

Q． 18 In a certain code language，＇GHOST＇is written as＇VVSMM＇and＇EATER＇is written as ＇THXFK＇．How will＇HANDS＇be written in that language？
Ans
1．UGRFN
X 2．NFRGV
X 3．WHRGN
X 4．VGRGN
Q. 19 If $A \times B$ means that $A$ is the brother of $B, A \div B$ means that $A$ is the sister of $B, A+B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the sister of $\mathbf{R}$ ?

Ans
$X 1 . P+Q \times R$
2. $P \div Q \times R$

X $3 . P \times Q \div R$
X4. $P \div Q+R$
Q. 20 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X1.16-30
2. $44-84$

X 3.14-26
$\times 4.18-34$
Q. 21 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(45,15,120)$
$(27,8,76)$
Ans
$\times 1 .(72,58,84)$
X 2. $(30,12,80)$
X $3 .(23,14,38)$
4. $(56,48,32)$
Q. 22 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

+ and -, 6 and 9
l. $6-5 \times 9+8 \div 2$
II. $6-4+9 \times 5 \div 3$

Ans
X1.17,5
X 2.81,16

- $3.35,3$
(4.54,5
Q. 23 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Dog: Kennel
Ans

1. Bee: Hive

X 2. Hare: Den
X 3. Lion : Burrow
4. Spider: Shed
Q. 24 A \$ $B$ means ' $A$ is the husband of $B$ '
$A @ B$ means ' $A$ is the daughter of $B$ '
$A$ \# $B$ means ' $A$ is the father of $B$ '
$A$ * $B$ means ' $A$ is the mother of $B$ '
If $\mathbf{X}$ @ $Y \$ J^{*} M$, then how is $X$ related to $M$ ?
Ans
X 1. Brother
X 2. Sister-in-law
3. Sister
4. Grandmother
Q. 25 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. FKA
2. CJZ

X 3.PUK
X 4. CHX

Section: General Awareness
Q. 1 Who among the following is a famous performer of the Kathakali classical dance?

Ans
X 1. Pankaj Charan Das
2. Sunanda Nayar
3. Gopinath
4. Raja Reddy
Q. 2 Who was appointed the Lieutenant Governor of Delhi in May 2022?

Ans
X 1. Vivek Kumar
X 2. Arvind Krishna
3. Vinai Kumar Saxena

X 4. Vijay Shekar Sharma
Q. 3 What powers the Earth's internal heat engine?

Ans
X 1. Solar Energy
2. Volcanoes
3. Radioactive energy
4. Tides
Q. 4 Which of the following has unit $\mathrm{m} / \mathrm{s}^{2}$ ?

Ans
$\times 1$. Speed
X 2. Distance
3. Acceleration

X 4. Velocity
Q. 5 Shovana Narayan was awarded which of the following awards in 2013?

Ans 1. Guru Deba Prasad
2. Sangam Kala
3. Kalidas Samman
4. Bharat Muni Samman
Q. 6 Medisep is a unique and comprehensive social insurance scheme. This scheme was implemented by which state government?
Ans
X 1. Karnataka
2. Chhattisgarh
3. Kerala

X 4. Rajasthan
Q. 7 Which of the following is a unit of distance?

Ans
X1. Newton
X 2. Watt
3. Light year

X 4. Joule
Q. 8 Rajaraja I and Rajendra I belonged to the $\qquad$ dynasty.
Ans

1. Chola
2. Pallava
3. Pandya
4. Chalukya
Q. 9 The abbreviation "CPCL" is associated with the petroleum industry in India. Expand "CPCL":
Ans
X 1. Central Petroleum Corporation Limited
< 2. Coimbatore Petroleum Corporation Limited
5. Chennai Petroleum Corporation Limited

X 4. Corporation of Petroleum and Chemicals Limited
Q. 10 Which law, that was proposed in 1811, predicted that the same volume of gases at the same temperature and pressure would have the same number of molecules?
Ans
X 1. Dalton's law
X 2. Gay-Lussac's law
2. Avogadro's law

X 4. Charles' law
Q. 11 Which of the following dynasty was not the part of "tripartite struggle", which fought for centuries to control over one particularly prized area Kanauj?
Ans

1. Kadamba
2. Rashtrakuta
3. Pala
4. Gurjara-Pratihara
Q. 12 Which is the most popular coal in commercial use?

Ans

1. Bituminous

X 2. Anthracite
X 3. Peat
X 4. Lignite
Q. 13 Which of the following countries will be hosting the first edition of ICC Women's

Under-19 Cricket World Cup in 2023?
Ans
X 1. India
2. South Africa
3. Bangladesh
4. England
Q. 14 Mariana trench is located in which ocean?

Ans
X 1. Arctic ocean
2. Pacific ocean

X 3. Atlantic ocean
4. Southern ocean
Q. 15 What is the minimum quorum required in the Lok Sabha so that it can transact any business?

Ans

1. One-tenth of the total number of Members of the House

X 2. One-fourth of the total number of Members of the House
X 3. One-third of the total number of Members of the House
4. One-fifth of the total number of Members of the House
Q. 16 Savings deposits with Post Office savings banks are included in which measure of money supply?
Ans
X 1. M1
2. M4
3. M2
4. M3
Q. 17 In which of the following Olympic games did India NOT win Gold?

Ans
$\times 1.1948$
X 2.1928
X 3.1932
4. 1960
Q. 18 In which of the following years was the voting age reduced from 21 years to 18 years?

Ans

1. 1990
2. 1992
3. 1988
4. 1989
Q. 19 Which sector was given the main emphasis in the second Five-Year Plan?

Ans
X 1. Transport
X 2. Agriculture
X 3. Trade
4. Industry
Q. 20 Which Indian tabla virtuoso and musician won the 'Best Contemporary World Music Album' Grammy award for 'Global Drum Project'?
Ans
X 1. Pandit Sandeep Das
2. Ustad Alla Rakha
3. Ustad Zakir Hussain
4. Pandit Anindo Chatterjee
Q. 21 Who has been appointed as the new Attorney General of India by President Droupadi Murmu for a period of three years?
Ans

1. Shehan Karunatilaka
2. Dhananjaya Yashwant Chandrachud
3. Rishi Sunak
4. R. Venkataramani
Q. 22 In leaves transpiration takes place through $\qquad$ .
Ans
5. Stomata
6. Cork cell
7. Epidermal cell
8. Guard cells
Q. 23 Who was recognised as 'Asthana Nartaki' (resident dancer) of the Tirumala Tirupati Devasthanam for her contribution in the development and promotion of the Indian classical dance forms?

Ans
X 1. Rukmini Devi
X 2. Ragini Devi
3. Yamini Krishnamurthy

X 4. Uma Sharma
Q. 24 Manimekalai describes the story of which of the following?

Ans 1.Kovalan and Madhavi's Daughter
2. Kovalan's wife Madhavi
3. Kovalan's first wife Kannagi
4. Kovalan and Madhavi's Son
Q. 25 "A History of British India" is a work Published by $\qquad$ -

Ans

1. Lord Canning
2. Lord Dalhousie
3. James Mill
4. Warren Hastings

Section : Quantitative Aptitude
Q. 1 In $\triangle X Y Z, \angle X=90^{\circ}, Y Z=15 \mathrm{~cm}$, and $X Z=12 \mathrm{~cm}$. Then find Cos $Y$.

Ans

1. $\frac{2}{5}$

4
2.

5
3. $\frac{3}{5}$
$\frac{3}{4}$
Q. 2 What is the LCM of $\left(8 x^{3}+80 x^{2}+200 x\right)$ and $\left(4 x^{4}+16 x^{3}-20 x^{2}\right)$ ?

Ans

1. $8 x^{2}(x+5)^{2}(x-1)$
x 2. $8 x^{2}(x-1)^{2}(x+5)$
X 3. $4 x^{2}(x-1)^{2}(x+5)$
X4. $4 x^{2}(x+5)^{2}(x-1)$
Q. 325 men and 45 women can complete a piece of work in 15 days, while 15 men and 60 women can complete it in 20 days. In how many days can 69 men and 67 women complete the work?
Ans
$\times 1.10$
$\times 2.5$
2. 8
3. 6
Q. 4 In a 1500 m race, if vehicle $P$ gives vehicle $Q$ a start of 200 m , then vehicle $P$ wins the race by 8 sec . Alternatively, if vehicle $P$ gives vehicle $Q$ a start of 400 m , the race ends in a dead heat. How long does vehicle P take to run 1500 m ?
Ans
4. 44 sec
5. 45 sec
6. 40 sec
7. 60 sec
Q. 5 If $\tan A-\tan B-\tan C=\tan A \tan B \tan C$, what is the value of $A$ in terms of $B$ and $C$ ?

Ans
$\mathrm{A}=\mathrm{B}+\mathrm{C}$
2. $A=2 B-2 C$
3. $\mathrm{A}=\mathrm{B}-\mathrm{C}$
$X 4 . A=\frac{B-C}{2}$
Q. 6 The table given below shows the budget allocation for education in five states in a year.

| States | Budget allocation |
| :---: | :---: |
| J | 325 |
| K | 175 |
| L | 350 |
| M | 525 |
| N | 635 |

The budget allocation for education in state K is what percent of the budget allocation for education in state L?

Ans
X 1.150 percent
X 2.55 percent
X 3.45 percent
4. 50 percent
Q. 7 If the diameter of a hemisphere is 35 cm , then what is the volume of hemisphere?

Ans

1. $11229.17 \mathrm{~cm}^{3}$
2. $15248.46 \mathrm{~cm}^{3}$
3. $17428.33 \mathrm{~cm}^{3}$
$4.9478 .26 \mathrm{~cm}^{3}$
Q. 8 Wheat worth Rs. 80 per kg and Rs. 50 per kg is mixed with a third variety in the ratio 1:2:3. If the mixture is worth Rs. 75 per kg , then the price of the third variety per kg will be equal to:

Ans

1. Rs. 95
2. Rs. 85
3. Rs. 80
4. Rs. 90
Q. 9 The mean proportional of 6 and 54 is $\qquad$ more than 15.
Ans
f1.3
$\times 2.6$
$\times 3.4$
$\times 4.5$
Q. 10 The initial profit percentage on the sale of an item was $55 \%$.If the cost price of the item went up by $24 \%$ but the selling price remained the same, what would be the new profit percentage?
Ans
X1.36\%
5. $25 \%$

X $3.28 \%$
4. 33\%
Q. 11 The given table shows the consumption of grains in terms of kilograms of a small village per day over the given set of years. Study the table and answer the question that follows.

| Year | Rice | Wheat | Maize | Barley |
| :---: | :---: | :---: | :---: | :---: |
| $1998-2000$ | 181 | 50 | 35 | 26 |
| $2003-2005$ | 167 | 44 | 39 | 17 |
| $2008-2010$ | 169 | 38 | 49 | 25 |
| $2013-2015$ | 150 | 45 | 51 | 21 |
| $2018-2020$ | 147 | 54 | 63 | 24 |

For wheat grains, for the given set of years, the highest consumption is approximately how much per cent of that of all grains consumption per day in such a set of years?

Ans
$\times 1.13 .52 \%$
2. $18.75 \%$
3. $15.32 \%$
$\times 4.17 .85 \%$
Q. 12 Steel is used to make a hemispherical bowl that is 0.37 cm thick. The bowl's inner radius is 6 cm . Find the bowl's
outside curved surface area (take $\pi=\frac{22}{7}$ ).
Ans
X 1. $532 \mathrm{~cm}^{2}$
2. $255.0548 \mathrm{~cm}^{2}$

X 3. $484 \mathrm{~cm}^{2}$
$\times 4.523 .4107 \mathrm{~cm}^{2}$
Q. 13 if $\tan ^{2} \alpha=3+Q^{2}$, then $\sec \alpha+\tan ^{3} \alpha \operatorname{cosec} \alpha=$ ?

Ans
$X^{1} \cdot\left(3+Q^{2}\right)^{\frac{3}{2}}$
X2. $\left(7+Q^{2}\right)^{\frac{3}{2}}$
${ }^{3} \cdot\left(5-Q^{2}\right)^{\frac{3}{2}}$

- ${ }^{4 .}\left(4+Q^{2}\right)^{\frac{3}{2}}$
Q. 14 The height of an equilateral triangle is $9 \sqrt{3} \mathrm{~cm}$. What is the area of this equilateral triangle?
Ans

1. $92 \sqrt{3} \mathrm{~cm}^{2}$
2. $67 \sqrt{3} \mathrm{~cm}^{2}$
3. $49 \sqrt{3} \mathrm{~cm}^{2}$
4. $81 \sqrt{3} \mathrm{~cm}^{2}$
Q. 15 If the angles of a triangle are in the ratio of $1: 2: 3$, what is the type of such triangle?

Ans
X 1. Isosceles triangle
X 2. Equilateral triangle
3. Right-angle triangle
4. Obtuse- angle triangle
Q. 16 The given bar graph shows the data of the production of rice (in lakh tons) by three different countries $P, Q$ and $R$ over
the years mentioned. Study the graph and answer the question that follows.


The average production for the five years is maximum for which country?
Ans
X 1. Only Q
X 2. P and Q
X 3. P and R
4. Only R
Q. 17 A person lent certain sum of money at the annual rate of 7 percent on simple interest and the interest received in 11 years is Rs. 920 less than the sum lent. What is the sum lent?

Ans
X 1. Rs. 41200
2. Rs. 4000
3. Rs. 52000
4. Rs. 2400
Q. 18

Simplify the following equation. What is the difference between the two values of x ?
$7 x+4\left\{x^{2} \div(5 x \div 10)\right\}-3\left\{5 \frac{1}{3}-x^{3} \div\left(3 x^{2} \div x\right)\right\}=0$
Ans
$\times 1.8$
2. 16
3.5
4. 17
Q. 19 If a number $K=42 \times 25 \times 54 \times 135$ is divisible by $3^{a}$, then find the maximum value of a.

Ans
$\times 1.6$
2. 7
$\times 3.4$
$\times 4.5$
Q. 20

If $x^{2}+y^{2}+2 y+4 x+5=0$, then $\frac{x+y}{x-y}=$ $\qquad$ .

Ans

1. -3
$\times 2 . \frac{1}{3}$
2. -1
3. 3
Q. 21 A mask manufacturing company manufactured ' $X$ ' number of masks in 2018. It increased its manufacturing capacity by $\mathbf{3 0 \%}$ in 2019 and further increased its manufacturing by $\mathbf{1 5 \%}$ in 2020 . In 2021, due to the machinery breakdown, its manufacturing declined by $40 \%$. What is the value of ' $X$ ' if it manufactured 179400 masks in 2021?
Ans
$\times 1.180000$
X 2. 230000

- 3.200000
$\times 4.210000$
Q. 22

The value of $\frac{(x-y)^{3}+(y-z)^{3}+(z-x)^{3}}{6(x-y)(y-z)(z-x)}$, where $x \neq y \neq z$, is equal to:

Ans
$\times 1 . \frac{1}{4}$
2. $\frac{1}{2}$
$\times 3 . \frac{1}{3}$
$\times 4 \frac{1}{9}$
Q. 23 The table given below shows the number of toys manufactured by five factories.

| Factory | Toys |
| :---: | :---: |
| F1 | 250 |
| F2 | 450 |
| F3 | 350 |
| F4 | 150 |
| F5 | 550 |

Number of toys manufactured by F2 are what percent of the number of toys manufactured by F4?
Ans
X 1.200 percent
2. 100 percent

- 3. 300 percent
(4.50 percent
Q. 24 In a shop, a discount of 5 percent is provided, and if the total payable amount after discount is more than ₹ 2,000 , then an additional discount of 10 percent is provided. Determine the final amount to be paid (in ₹) by a customer, if he buys five products each of price ₹ 500 .
Ans
X 1. ₹ 2,500
X 2. ₹2,225.5
X $3 . ₹ 2,375.5$

4. ₹ $2,137.5$
Q. 25 If the circumference of a circle is 220 cm , then what is its radius?

Ans
X 1.26 cm
X 2.25 cm

- 3.35 cm
$\times 4.40 \mathrm{~cm}$

Section : English Comprehension
Q. 1 Select the correct direct form of the given sentence.

She said that she could not believe him.
Ans
< 1. She said, "You cannot believe him."
2. She said, "I may not believe him."
3. She said, "I cannot believe him."
4. She says, "I could not believed him."
Q. 2 Select the most appropriate synonym of the underlined word in the given sentence.

The next move of the opponent was anticipated by the team.
Ans
X 1. Forgotten
2. Predicted
3. Suspected
4. Dreaded
Q. 3 Select the most appropriate option to fill in the blank and complete the collocation.

Akshay always gives $\qquad$ to Johana for his success.
Ans

1. blame
2. chance
$\times$ 3. opportunity
3. credit
Q. 4 Select the most appropriate synonym of the underlined word in the following sentence. The way Sheetal imparts knowledge to her students is really praiseworthy.
Ans
X 1. discloses
4. transmits

X 3. exposes
4. admits
Q. 5 Select the most appropriate meaning of the underlined idiom in the given sentence. Nobody in the conference seemed to believe the cock and bull story about such a major movie star.
Ans
X 1. Factual story
2. Wildly exaggerated or falsified story
3. Interesting story
4. Secretive story

## Q. 6 Select the sentences that contains no spelling errors.

Ans

1. My mother asked me to purchase two bread knives having serrated edges.
2. My mother asked me to purchase two bread knives having seerated edges.
3. My mother asked me to purchase two bread knives having serratted edges.
4. My mother asked me to purchase two bread knives having serated edges.
Q. 7 Select the option that can be used as a one-word substitute for the given group of words

Allowance given to a wife from her husband on separation
Ans
X 1. Allegory
2. Alimony

X 3. Affidavit
X 4. Advocacy
Q. 8 Select the option that expresses the given sentence in passive voice.

The secretary was noting down the dictation.
Ans
$X 1$. The secretary noted the dictation.
$\times 2$. The dictation was noted down by the secretary.
X 3. The notes were noted by the secretary.
4. The dictation was being noted down by the secretary.
Q. 9 Fill in the blank with the correct collocation.

Holm, a Danish traveller, had made a/an $\qquad$ replica of the tablet, which in 1908 was deposited in the Metropolitan Museum of Art, New York.
Ans
X 1. wild
X 2. obscure
X 3. corrupt
4. exact
Q. 10 Rectify the sentence by selecting the correct spelling of the underlined word.

She is a nuisanse to her family.
Ans
$X 1$. nuisince
X 2. niusance
X 3. newsance
4. nuisance
Q. 11 Select the most appropriate synonym of the bracketed words to fill in the blank.

The lights $\qquad$ (lighting up) the artwork on the walls of the museum were looking beautiful
Ans
X 1. enlightening
2. illuminating

X 3. trafficking
X 4. mesmerising
Q. 12 Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.

The game is now in full swing.
Ans
X 1. very passive
$\times 2$. very uninteresting
X 3. playing on the swings
4. very active
Q. 13 Select the most appropriate ANTONYM of the highlighted word in the following sentence.

The managing director produced cogent reasons for the change in HR policies.
Ans
X 1. Compelling
2. Unconvincing
3. Pertinent
4. Unexpected
Q. 14 Rearrange the parts of the sentence in correct order.

Thorium has
P. and is part of a nuclear programme in India
Q. of nuclear reactor in countries including
$R$. been tested as a fuel in other types
S. the United States, Germany and the United Kingdom,

Ans

1. RQSP

X 2. RPQS
X 3.PSQR
4. SPQR
Q. 15 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
You must / be hurry, / otherwise you will / miss the train.
Ans
$X 1$. miss the train.
2. be hurry,
3. You must
4. otherwise you will
Q. 16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The boy had run away / because he couldn't stand / his father beat him / for one more day.
Ans

1. his father beat him
2. because he couldn't stand
3. The boy had run away
4. for one more day
Q. 17 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. Poor posture may strain neck muscles, whether you're leaning over your computer or hunching over your workstation.
B. However, neck pain may occasionally be an indication of a more serious issue.
C. Neck pain is a frequent problem among many people these days.
D. If your neck pain is accompanied by numbness or lack of strength in your arms or hands, or if you experience shooting pain into your shoulder or down your arm, you should seek medical attention.

Ans

1. CADB
2. CABD
3. BDCA
4. ABDC
Q. 18 Select the correct active form of the given sentence. Football tournament was being avoided by his son.
Ans
X1. His son is avoiding football tournament.
5. His son was avoiding football tournament.

X 3. His son avoided football tournament.
X 4. His son avoids football tournament.
Q. 19 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

She lived in well-resourced surroundings.
Ans

1. luxurious
2. luxuriousness
3. luxury
4. No substitute
Q. 20 Rearrange the parts of the sentence in correct order.

The Google doodle
P. with a cup of green tea, beaker and
Q. Tsujimura working in her laboratory
$R$. some green tea leaves by the side
S. features a graphical representation of

Ans $\quad \times 1 . \mathrm{RSPQ}$
2. PQSR
3. RPQS
4. SQPR

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
One's options in this world are as (1) $\qquad$ as the horizon, which is technically a circle and thus (2) $\qquad$ broad. Yet we must choose each step we take with (3) $\qquad$ caution, for the footprints we leave (4) $\qquad$ are as important as the (5) $\qquad$ we will follow. They're part of the same journey: our story.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. narrow
X 2. slight
X 3. contracted

- 4. vast


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
One's options in this world are as (1) $\qquad$ as the horizon, which is technically a circle and thus (2) caution, for the footprints we leave (4) $\qquad$ are as take with (3) $\qquad$
important as the (5) $\qquad$ we will follow. They're part of the same journey: our
story.
SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. rigorously
X 2. severely
X 3. strictly
4. infinitely

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
One's options in this world are as (1) $\qquad$ as the horizon, which is
technically a circle and thus (2) $\qquad$ broad. Yet we must choose each step we
take with (3) $\qquad$ caution, for the footprints we leave (4) $\qquad$ are as
important as the (5) $\qquad$ we will follow. They're part of the same journey: our
story.
SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. utmost
2. slack
3. unmindful
4. inattentive

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
One's options in this world are as (1) $\qquad$ as the horizon, which is
technically a circle and thus (2) $\qquad$ broad. Yet we must choose each step we take with (3) $\qquad$ caution, for the footprints we leave (4) $\qquad$ are as
important as the (5) $\qquad$ we will follow. They're part of the same journey: our
story.
SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. discarded
X 2. surplus

- 3. behind

X4. excessive

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
One's options in this world are as (1) $\qquad$ as the horizon, which is technically a circle and thus (2) caution, for the footprints we leave (4) $\qquad$ are as take with (3)
important as the (5) $\qquad$ we will follow. They're part of the same journey: our story.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans $\times 1$.approach
2. path

X 3. manner
X 4. custom

Combined Graduate Level Examination Tier I 2022

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Section : General Intelligence and Reasoning
Q. 1 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All $M$ are $A$.
II. No $A$ is $R$.

Conclusion:
I. No M is R.
II. Some A are M.
III. Some R are A.

Ans

1. Both conclusions I and II follows
2. Both conclusions II and III follows
3. All conclusion follows
4. Both conclusions I and III follows
Q. 2 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$98-9 \times 21 \div 7+56=69$
Ans
5. 56 and $9,+$ and $\times$
6. 56 and $21,+$ and $\times$
7. 98 and $9,+$ and $\times$
8. 21 and 7, + and -
Q. 3 By interchanging the given two signs which of the following equation will be correct?

+ and -
Ans
X1. $55 \div 11-15+3 \times 2=15$

2. $4 \times 3-6 \div 2+7=7$
3. $15-7 \times 8+18 \div 3=65$
$4.529 \div 23+10-5 \times 4=30$
Q. 4 After arranging the given words according to dictionary order, which word will come at 'Fourth' position?
4. Remark
5. Remain
6. Remember
7. Remnant
8. Remanent

Ans $\times 1$. Remanent
X 2. Remark
X 3. Remnant
4. Remember
Q. 5 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. NMTS, SGAK, XAHC, CUOU, ?

Ans
X 1. OMQR
X 2. HVMO
3. HOVM

X 4. RMNO
Q. 6 If $A \div B$ means that $A$ is the father of $B, A-B$ means that $A$ is the mother of $B, A+B$ means that $A$ is the brother of $B$ then which of the following expression shows that $P$ is the mother of $R$ ?

Ans
X 1. $Q-P+R$
2. $P-Q+R$

X 3. $\mathrm{P}-\mathrm{Q} \div \mathrm{R}$
X4.R+P-Q
Q. 7 Select the figure that will replace the question mark (?) in the following figure series.


Ans

$\times 3$.

$\times 4$.

Q. 8 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans

1. HBL

X 2. IJR
X 3. XUC
X4.TYG

Q． 9 Select the correct mirror image of the given combination when the mirror is placed at＇PQ＇as shown below．
FRUITFUL

Q
Ans
$\times 1$ JUҰTUIタ7
x2」クUTUIタ
x．」クUTIUタヲ
－JUҰTIUタヲ

Q． 10 Select the correct combination of mathematical signs to sequentially replace the \％ signs and to balance the given equation．
［\｛（32 \％28）\％（6 \％4）\} \% (1 \% 7)] \% 5 \％ 20
Ans
1．,,$-+ \times, \div, \times, \times,=$
X2．$\times, \div, \times, \times,-,+,=$
X $3 . \times,-,+, \times, \div, \times,=$
X4．,,$-+ \times, \times, \times, \times,=$

Q． 11 Three different positions of the same dice are shown．Find the number on the face opposite the face having＇ 3 ＇．


## Figure 1

Figure 2
Figure 3
Ans
－ 1.1
$\times 2.2$
$\times 3.5$
$\times 4.6$
Q. 12 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 3$.

$\times 4$.

Q. 13 In a certain code language, 'ABOUT' is written as 'YZQSR' and 'PARTS' is written as 'NYTRQ'. How will 'PLANT' be written in that language?
Ans
X 1. NICRL
2. NJCLR

- 3. RJCLV

4. NJDLP
Q. 14 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
5 : 150 :: 6 : ? :: 8 : 576
Ans
5. 252
6. 255
7. 225
8. 222
Q. 15 Which letter cluster will replace the question mark (?) to complete the given series? ZYWT, XWUR, VUSP, ?, RQOL
Ans
9. TSQN
10. TSQM
11. TSPN
12. STQN
Q. 16 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).


Ans

2.

$\times 3$.

$\times 4$

Q. 17 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row - 6, 9, 90
Second row-12, 8, 120
Third row-13, 6, ?
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
Ans
-1. 114
$\times 2.125$
$\times 3.102$
4. 110
Q. 18 Which of the following numbers will replace the question mark (?) in the given series? 286, 192, 263, 176, 240, 160, 217, 144, ?

Ans
$\times 1.186$
2. 194
3. 165
4. 190
Q. 19 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
(12, 112, 9)
$(10,84,8)$
Ans
X 1. $(12,149,12)$
2. $(13,55,4)$
3. $(11,99,9)$
4. $(18,94,5)$
Q. 20 Three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All c are $f$.
No $f$ is $t$.
All p are c.
Conclusions:
I. Some t are c.
II. No $p$ is $t$.

Ans

1. Only conclusion II follows.
2. Only conclusion I follows.
3. Neither conclusion I nor II follows.
4. Either conclusion I or II follows.
Q. 21 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X1.7-24
$\times 2.13-42$
5. $11-37$
6. 5-18
Q. 22 ' $A \infty B$ ' means ' $A$ is the sister of $B$ '.
' $A$ * $B$ ' means ' $A$ is the mother of $B$ '.
' $A$ @ $B$ ' means ' $B$ is the father of $A$ '.
' $A$ \# $B$ ' means ' $B$ is the wife of $A$ '.
If $\mathbf{V} \infty \mathrm{U}$ @ $\mathbf{W} \# Y^{*} \mathbf{Z}$, then how is $\mathbf{V}$ related to $\mathbf{Z}$ ?
Ans
7. Sister
8. Mother
9. Wife
10. Father
Q. 23 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Thermometer : Temperature
Ans
X 1. Glucometer: Measure
X 2. Odometer: Car
11. Oximeter: Oxygen level of blood
12. Pedometer : Bone Fractures
Q. 24 In a certain code language, 'PRESIDENT' is written as 'RPESDINTE' and 'KNOWLEDGE' is written as 'NKOWELGED'. How will 'EDUCATION' be written in that language?
Ans
13. DEUCTAON
14. DEUCTOANI
15. DUECTAONI
16. DECUTAONI
Q. 25 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related
to the third letter-cluster.
BEAR : QZDA :: DUST : SRTC :: GOLD : ?
Ans
17. CKNF
18. KCFN
19. CNFJ
20. FGNC

[^5]Q. 1 With which of the following Indian states is the folk dance Lezim associated?

Ans

1. Maharashtra

X 2. Kerala
X 3. Arunachal Pradesh
4. Jharkhand
Q. 2 The $11^{\text {th }}$ Fundamental Duty was added to Indian Constitution in which year?

Ans
X 1.2000
X2. 1970

- 3. 2002
$\times 4.2006$
Q. 3 How many delegates participated in the second session of Indian National Congress?

Ans

- 1.434
$\times 2.628$
$\times 3.212$
$\times 4.190$
Q. 4 In October 2022, 'Tele-MANAS' initiative was launched by the Union Ministry of Health and Family Welfare. What does 'M' stand for in MANAS?
Ans
X 1. Memorandum
X 2. Multicultural
X 3. Medicinal

4. Mental health
Q. 5 'Nupa' dance is associated with which Indian state?

Ans
X 1. Karnataka
2. Manipur

X 3. Jharkhand
X 4. Tamil Nadu
Q. 6 The largest wind farm cluster of India is located in $\qquad$ -.

Ans
X 1. Gujarat
2. Tamil Nadu

X 3. Maharashtra
4. Karnataka
Q. 7 Which of the following is a right bank tributary of the Ganga?

Ans

1. Son
2. Gomati
3. Gandak
4. Koshi
Q. 8 The Delhi Municipal Corporation (Amendment) Bill, 2022 was passed in Lok Sabha on

Ans
$\qquad$
X 1. April 30, 2022
2. April 20, 2022
3. May 15, 2022
4. March 25, 2022

## Q. 9 Which of the following festivals is NOT associated with Sikkim?

Ans $\times 1$. Losar
2. Lohri
3. Sakewa
4. Yenya
Q. 10 Identify the function of the enzyme trypsin.

Ans

1. Digesting proteins
2. Breaking down carbohydrates
3. Digesting roughage and fats
4. Emulsifying insulin
Q. 11 In India the residuary powers to legislate any matter that is NOT mentioned in the three federal lists lies with the $\qquad$ _.
Ans
5. supreme court
6. union legislature
7. state legislature
8. respective ministry
Q. 12 The interest rate at which the Reserve Bank of India provides overnight liquidity to banks is called $\qquad$ .

Ans
$\times 1$

1. Reverse repo rate
2. Marginal standing facility rate
3. Repo rate
4. Leverage rate
Q. 13 Which country is the leading producer of jute?

Ans
X 1. Brazil
X 2. China
3. India
4. Columbia
Q. 14 Thanjavur was the capital of which dynasty?

Ans
X 1. Pala
2. Chola
3. Vakataka
4. Parmara
Q. 15 $\qquad$ is a group of cells similar in structure and function.
Ans $\times 1$. Organ system
X 2. Organ
3. Tissue

X 4. Molecule
Q. 16 Which law was based on notes of the music?

Ans
X 1. Newton law
2. Law of octaves

X 3. Mendeleev law
4. Modern periodic law
Q. 17 In November 2022, the Supreme Court upheld the validity of the 103 constitutional amendment providing per cent reservation to people belonging to economically weaker section (EWS).
Ans
$\times 1.5$
$\times 2.15$
*. 10
$\times 4.20$
Q. 18 The Rural Landless Labour Employment Guarantee Programme (RLEGP) was started in which of the following Five-Year Plans?
Ans

1. Sixth
2. Seventh

X 3. Fifth
4. Fourth
Q. 19 Which of the following book was written by Aryabhata?

Ans
X 1. Dhatupatha
2. Aryabhatiyam

X 3. Natya Shastra
X 4. Romaka Siddhanta
Q. 20 Which of the following was "NOT" a main centre of Revolt of $1857 ?$

Ans
X 1. Kanpur
2. Bareilly
3. Rohtak
4. Lucknow
Q. 21 Which of the following river basin is present in Odisha?

Ans
X 1. Narmada
2. Mahanadi

X 3. Krishna
4. Kaveri
Q. 22 'Samvidhan Divas', is celebrated on $\qquad$ .

Ans
X1. $18^{\text {th }}$ November
2. $26^{\text {th }}$ January
3. $26^{\text {th }}$ November
4. $15^{\text {th }}$ August
Q. 23 The first edition of the Commonwealth Youth Games was held at $\qquad$ .
Ans

1. Edinburgh
2. Sydney
3. Melbourne
4. Brisbane
Q. 24 Which of the following strokes in swimming does NOT start with a dive into the pool from outside?

Ans
(1. Butterfly
2. Backstroke
3. Breaststroke
4. Freestyle
Q. 25 The chemical formula of gypsum is $\qquad$ -

Ans

1. $\mathrm{CaSO}_{4} \cdot 12 \mathrm{H}_{2} \mathrm{O}$
2. $\mathrm{MgSO}_{4} \cdot 12 \mathrm{H}_{2} \mathrm{O}$

X 3. $\mathrm{MgSO}_{4} \cdot 2 \mathrm{H}_{2} \mathrm{O}$
4. $\mathrm{CaSO}_{4} \cdot 2 \mathrm{H}_{2} \mathrm{O}$

[^6]Q. 1 The perimeter of a square is 124 metres. What is its area?

Ans
X 1. $448 \mathrm{~m}^{2}$
X2. $884 \mathrm{~m}^{2}$
X 3. $764 \mathrm{~m}^{2}$

- 4. $961 \mathrm{~m}^{2}$
Q. 2 In triangle $\mathrm{XYZ}, \mathrm{P}$ is the incentre of the triangle XYZ . If angle $\mathrm{XYZ}=50$ degree, then what is the value of angle XPZ?
Ans
< 1. 100 degree

2. 115 degree
$\times 3.140$ degree
3. 130 degree
Q. 3 A shopkeeper sells an article at $13 \frac{1}{2} \%$ loss. If he sells it for $₹ 1,274$ more, then he gains $11 \%$. What is the cost price of the article?
Ans
X 1. Rs.4,874
X 2. Rs.4,800
4. Rs.5,200

X 4.Rs.5,274
Q. 4 The table given below shows the expenditure of two companies in different years.

|  | Companies |  |
| :---: | :---: | :---: |
| Years | L | M |
| P | 200 | 500 |
| Q | 150 | 350 |
| R | 300 | 250 |
| S | 100 | 150 |
| T | 400 | 100 |

$\mathrm{J} 1=$ The total expenditure of company L in all the 5 years.
$\mathrm{J} 2=$ The total expenditure of company M in all the 5 years. What is the value of ( $\mathrm{J} 1: \mathrm{J} 2$ )?

Ans
$\times 1.27: 23$
$\times 2.21: 29$
3. $23: 27$
4. $29: 23$
Q. 5 The average weight of 12 persons increases by 3.5 kg when a new person comes in place of one of them weighing 58 kg . The weight of the new person is:

Ans

1. 100 kg
2. 16 kg
3. 70 kg
4.42 kg
Q. 6 The pie chart given below shows the number of cars sold by 8 different companies. The total number of car sold by all these 8 companies are 10,000. Number of cars sold by a particular company is shown as a percent of total number of cars sold by all these 8 companies.


Which of the following statement is correct?
I. The average number of cars sold by company B, F and H are 100.
II. The ratio of number of cars sold by $A$ to the number of cars sold by $E$ are $4: 5$.

Ans
X 1. Only I
X 2. Only II
3. Neither I nor II

X 4. Both I and II
Q. 7

If $K+\frac{1}{K}+2=0$ and $K<0$, then what is the value of $K^{10}+\frac{1}{K^{11}}$ ?
Ans
$\times 1.1$

- 2.0

X 3. -1
$\times 4.2$
Q. 8 What is the value of $\cos 45^{\circ} \sin 15^{\circ}$ ?

Ans
X $1 . \frac{(\sqrt{3}-1)}{2}$
2. $\frac{(\sqrt{3}-1)}{4}$

X3. $(\sqrt{3}+1)$
X4. $2 \sqrt{3}-1$
Q. 9 If $x+\frac{1}{x}=2$, then $x^{3}+\frac{1}{x^{3}}=$ ?

Ans
$\times 1.1$
$x .8$
$\times 2.8$
$\checkmark 3.2$
$\times 4.0$
Q. 10 Study the following table and select the correct statement.

| Height (in <br> $\mathrm{cm})$ | Weight (in kg) |
| :--- | :--- |
| 156 | 69 |
| 155 | 68 |
| 145 | 61 |
| 142 | 60 |
| 141 | 58 |
| 139 | 55 |
| 135 | 45 |

Ans

1. Weight increases with the increase in height.

Х 2. Weight increases with the decrease in height.
X 3. Weight decreases with the increase in height.
X 4. Height and weight are not related to each other.
Q. 11 Two concentric circles are drawn with radii 20 cm and 16 cm . What will be the length of a chord of the larger circle which is tangent to the smaller circle?

Ans
1.34 cm
2. 24 cm
$\times 3.48 \mathrm{~cm}$
4.12 cm
Q. 12 The circumference of the two circles is 308 cm and 440 cm respectively. What is the difference between their radii?

Ans

1. 21 cm
$\times 2.49 \mathrm{~cm}$
3.35 cm
2. 14 cm
Q. 13
$3\left[a-\frac{1}{a}\right]+\left[a-\frac{1}{a}\right]^{3}=?$

Ans
X1. $a^{2}-\frac{1}{a^{3}}$
2. $a^{3}-\frac{1}{a^{3}}$
3. $a^{3}+\frac{1}{a^{3}}$

X4. $\mathrm{a}^{2}-\frac{1}{\mathrm{a}^{2}}$
Q. 14 How many numbers from 1 to 430 are divisible by 7 and 11 both?

Ans
1.5

X 2.11
$\times 3.9$
$\times 4.7$
Q. 15 In a partnership firm two partners, Vijay and Praveen are working on an assignment. It will take 12 weeks for Vijay to complete the entire assignment alone, while Praveen will take 8 weeks to complete it alone. Due to work pressure, they decided to work on that assignment on the alternate week basis. In the first week Praveen will work and in the second week Vijay will work and so on. In how many weeks the work will be completed if they work on alternate week basis?
Ans
X 1.8
X 2.8 .5

- 3.9 .5
$\times 4.9$
Q. 16 If $14: 30:: 7: x$, then what is the value of $x$ ?

Ans 1.15
$\times 2.21$
3.09
4. 12
Q. 17 A circle is inscribed in a $\triangle A B C$ having sides $A B=16 \mathrm{~cm}, B C=20 \mathrm{~cm}$ and $A C=24 \mathrm{~cm}$, and side $A B, B C$ and $A C$ touches circle at $D, E$ and $F$, respectively. The measure of $A D$ is:

Ans 1.10 cm
2. 20 cm
3.6 cm
4. 14 cm
Q. 18 If $\triangle A B C \sim \triangle D E F$ such that $2 A B=D E$ and $B C=8 \mathrm{~cm}$, then the length of $E F$ is:

Ans

1. 16 cm
2. 18 cm
3. 22 cm
4. 20 cm
Q. 19 Find the least number exactly divisible by 9,24 and 36 .

Ans

- 1.72
$\times 2.36$
$\times 3.24$

4. 9
Q. 20 If $1+\sin \theta=m \cos \theta$, then what is the value of $\sin \theta$ ?

Ans

1. $\frac{2 m^{2}-1}{m^{2}+1}$
2. $\frac{m^{2}-1}{m^{2}+1}$
3. $\frac{m^{2}+1}{2 m^{2}-1}$
4. $\frac{\mathrm{m}^{2}+1}{\mathrm{~m}^{2}-1}$
Q. 21 A discount of $20 \%$ is given for the purchase of two books by a bookseller and a discount of $25 \%$ is offered if a customer buys more than two books. A 10\% discount is being offered to all the customers on purchase of one book. An additional 5\% discount will be given to students. Sohan, a student of M.Com. in college, bought a book for Rs.513. What was the marked price of the book?
Ans
X 1. Rs. 650
5. Rs. 540
6. Rs. 600
7. Rs. 605
Q. 22 A man rows to a place 48 km distant and comes back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. The speed of the stream is:
Ans
X $1.1 .5 \mathrm{~km} / \mathrm{h}$
Х $2.3 .5 \mathrm{~km} / \mathrm{h}$
X $3.1 .8 \mathrm{~km} / \mathrm{h}$
v $4.1 \mathrm{~km} / \mathrm{h}$
Q. 23 20\% of the inhabitants of a village having died of malaria, a panic set in, during which $30 \%$ of the remaining inhabitants left the village. The population was then reduced to 12,000. What was the number of inhabitants initially (Consider integral part only)
Ans
X 1.21000
8. 21428
$\times 3.21500$
$\times 4.30428$
Q. 24 The import and export of a country (in lakhs rupees) during a certain period of time is given in the following bar-graph.

Read the bar-graph carefully and answer the following question.


The import during the year 2017-18 is how many times of the import during the year 2016-172 (correct up to two decimals)
Ans

1. 1.33

X2. 1.50
$\times 3.1 .23$
$\times 4.1 .60$
Q.25 A sum is deposited in a bank which gives simple interest. The sum becomes 1.25 times in 3 years. If there is a requirement of $₹ 7,60,000$ after seven years, how much amount (in ₹) should one deposit to fulfil the requirement?

Ans
1.5,20,000
2. $5,70,000$
3. $4,80,000$
4. 6,00,000

Section : English Comprehension
Q. 1 Select the option that expresses the given sentence in passive voice.

The patient remembers his son taking him to the temple.
Ans
X 1. The patient remembers he was taken to the temple by his son.
X 2. The patient remembers taken to the temple by his son.
X 3. The patient remembers himself being taken to the temple by his son.
4. The patient remembers being taken to the temple by his son.
Q. 2 Select the option that can be used as a one-word substitute for the given group of words.

Formal forgiveness of a person's sins
Ans
X 1. Ablutions
2. Absolution

X 3. Absolutism
X 4. Forgiveness
Q. 3 Select the most appropriate ANTONYM of the underlined word. It is undesirable to invest a part of your earnings for future use.
Ans

1. advisable
$\times 2$. foolish
X 3. unadvisable
2. meek
Q. 4 Select the sentence with the appropriate use of preposition.

Ans
X 1. Ashok was in the bus stop.
X 2. Ashok was to the bus stop.
X 3. Ashok was on the bus stop.
4. Ashok was at the bus stop.
Q. 5 Select the most appropriate meaning of the underlined idiom in the given sentence.

The MD of the company let the cat out of the bag by telling her secretary, who got the much coveted promotion.
Ans
X 1. openly confess
X 2. Creating a false story
,
3. To allow a secret to be known, usually without intending to
4. secretly confide
Q. 6 Select the most appropriate ANTONYM of the underlined word.

Construction plays a central role in transforming the natural environment into the built environment, and many considerations and restrictions can apply before a project is given consent to proceed in terms of how it may influence the environment.
Ans
X 1. Bickering
X 2. Expulsion
3. Directive
4. Interdiction
Q. 7 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

A great transition / marked / the $20^{\text {th }}$ century / for mankind
Ans
X 1. A great transition marked the $20^{\text {th }}$ century for mankind.
2. The $20^{\text {th }}$ century marked a great transition for mankind.
3. A great transition for mankind marked the $20^{\text {th }}$ century.

X 4. For mankind, a great transition marked the $20^{\text {th }}$ century.
Q. 8 In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'.

During my time-taking and gradual convaelescenc after my back injury, my family was by my side.
Ans
X 1. convalesaence
X 2. No error
X 3. convalecense
4. convalescence
Q. 9 Fill in the blank with the correct collocation.

Brady straightened, the $\qquad$ baton in hand.
Ans
X 1. charge
2. wooden
3. swing
4. open

## Q. 10 Select the most appropriate meaning of the given idiom.

Take something at face value
Ans 1. Accept something as it looks without thinking about whether it might, in fact, not be
quite what it appears
X 2 . According to the appearance of something
3. Not laugh or change your expression even though you want to laugh
4. Show that you do not like something by making an unpleasant expression
Q. 11 Select the correct direct form of the given sentence.

The secretary assures the audience that he/she is going to help them.
Ans
X 1. The secretary said to the audience, "I am going to help you."
2. The secretary says to the audience, "I am going to help you."

X 3. The secretary says to the audience, "I was going to help you."
X 4. The secretary says to the audience, "I will be going to help you."
Q. 12 Select the correct active form of the given sentence.

My cafe has been revisited by many tourists.
Ans $\times 1$. Many tourists revisited my cafe.
X 2. Many tourists did revisited my cafe.
2. Many tourists have revisited my cafe.

X 4. Many tourists has revisited my cafe.
Q. 13 Select the most appropriate ANTONYM of the underlined word.

The actor was ridiculed for her nonchalant attitude towards her work.
Ans
$\times 1$. Boisterous
X 2. Unconcerned

- 3. Considerate

X 4. Retrospective
Q. 14 Select the most appropriate ANTONYM of the given word.

Pacify
Ans
X 1. Placate
$\times 2$. Assuage
3. Aggravate

X4. Quell
Q. 15 Rearrange the parts of the sentence in correct order.

Kemp's ridleys are
P. usually found in nearshore and
Q. inshore waters of the northern
R. Gulf of Mexico, especially in Louisiana waters,
S. which are their primary feeding grounds

Ans $\times 1$. SRQP
X 2. QPSR
3. PQRS

X 4.PRSQ
Q. 16 Select the most appropriate option to fill in the blank.

A faint mist $\qquad$ over the valley.
Ans

1. hung
2. swung
3. swayed
4. dangled
Q. 17 Select the correct indirect form of the given sentence.

She said to me, "You will speak at the conference tomorrow."
Ans
X 1. She told me that I would speak at the conference that day.
X 2. She told me that I might speak at the conference the next day.
X 3. She told me that I will speak at the conference the today.
4. She told me that I would speak at the conference the next day.
Q. 18 Select the INCORRECTLY spelt word.

Ans
X 1. Languish
$\times 2$. Altitude
3. Discusion
$\times$ 4. Longitudinal
Q. 19 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. It not only distances the addict from his/her social circles but also impacts their productivity badly.
B. People begin drinking just for the sake of it and gradually make it a habit.
C. Addiction of any kind, including alcoholic addiction impacts all aspects of an individual's life.
D. Once it becomes a habit, it does not require much to change into an addiction.

Ans
X 1. BDAC
X 2. DBCA
2. BDCA
$\times 4$. ACBD
Q. 20 Select the most appropriate option to substitute the underlined segment in the given sentence.

He is in debt due to his judicious tastes and habits.
Ans
X 1. affluent
X 2. frugal
3. extravagant
4. moderate

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank

The British king, Charles I, had (1) $\qquad$ a very difficult financial situation from his father. His period saw a very high rate of inflation. He wanted to (2) $\qquad$ money. Therefore, he (3) $\qquad$ creating the title of Baronet and selling it to (4) $\qquad$ candidates. However, his decision was
(5) $\qquad$ by the British parliament.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. owned
2. inherited

X 3. devised
4. genetic

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank

The British king, Charles I, had (1) $\qquad$ a very difficult financial situation from his father. His period saw a very high rate of inflation. He wanted to (2) $\qquad$ money. Therefore, he (3) $\qquad$ creating the title of Baronet and selling it to (4) $\qquad$ candidates. However, his decision was
(5) $\qquad$ by the British parliament.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

- 1. raise
$X$ 2. upraise
X 3.bring
X4. lift


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank

The British king, Charles I, had (1) $\qquad$ a very difficult financial situation from his father. His period saw a very high rate of inflation. He wanted to (2) $\qquad$ money. Therefore, he (3) $\qquad$ creating the title of Baronet and selling it to (4) $\qquad$ candidates. However, his decision was
(5) $\qquad$ by the British parliament.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans $\times 1$. ventured
2. started

X 3. continued
X 4. appeared

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank

The British king, Charles I, had (1) $\qquad$ a very difficult financial situation from his father. His period saw a very high rate of inflation. He wanted to (2) $\qquad$ money. Therefore, he (3) $\qquad$ creating the title of Baronet and selling it to (4) $\qquad$ candidates. However, his decision was
(5) $\qquad$ by the British parliament.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. resourceful
X 2. opulent
$X$ 3. healthy
2. 4. wealthy

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank

The British king, Charles I, had (1) $\qquad$ a very difficult financial situation from his father. His period saw a very high rate of inflation. He wanted to (2) $\qquad$ money. Therefore, he (3) creating the title of Baronet and selling it to (4) $\qquad$ candidates. However, his decision was (5) $\qquad$ by the British parliament.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans $\times 1$. banished
2. rejected

X 3. unaccepted
X 4. abandoned

Combined Graduate Level Examination Tier I 2022

| Roll Number | Www.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | Www.HaryanaJobs.in |
| Venue Name | Webinfotron Technologies Pvt. Ltd. |
| Exam Date | 08/12/2022 |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
59 * 12 * 6 * 24 * 2 * 105
Ans
Х1.,,,,$-+-+=$
X2. $\times,-,+, \times,=$
X $3 .+, \times,+,-,=$
4.,$- \div,+, \times,=$
Q. $2 F+M$ means ' $F$ is the husband of $M$ ' $F \div M$ means ' $F$ is the daughter of $M$ '
$F-M$ means ' $F$ is the father of $M$ '
$F \times M$ means ' $F$ is the mother of $M$ '
If $U+V \times K-B$, then how is $U$ related to $B$ ?
Ans
X 1. Paternal grandmother
2. Paternal grandfather
3. Maternal grandmother
4. Father
Q. 3 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.
pm94h $\left.\right|^{\text {M }}$
N
Ans

1. $\mu \triangleright 6 \mathrm{md}$
2. $4 \Delta \mathrm{emq}$
3. h 4 emq
4. h femq
Q. 4 Which figure should replace the question mark (?) if the series were to be continued?

| $T$ |  |  | $N$ |  |  | $\Delta$ |  |  | $N$ |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A | 0 | $Z$ | $\Delta$ | $T$ | $A$ | 0 | $A$ | $T$ | $E$ | $\Delta$ | 0 | $?$ |
| $N$ |  |  | $O$ |  |  | $N$ |  |  | A |  |  |  |

Ans


2. | $E$ |  |  |
| :--- | :--- | :--- |
| $A$ | $O$ | $\Delta$ |
| $N$ |  |  |

X3. | $A$ |  |  |
| :--- | :--- | :--- |
| $\Delta$ | $O$ | $E$ |
| $N$ |  |  |

$\times 4 .$| $A$ |  |  |
| :--- | :--- | :--- |
| $O$ | $N$ | $E$ |
| $\Delta$ |  |  |

Q. 5 Select the figure that will come next in the following figure series.

?

Ans

$\times 2$

$\times 3$

$\times 4$

Q. 6 Which of the following terms will replace the question mark (?) in the given series?

LKC KMD ? IQF HSG
Ans
X1.JOP
X 2. 10 J
$\times 3 . \operatorname{IOE}$
4. JOE
Q. 7 In a certain code language, 'ABASE' is coded as 'ZEZVD' and 'BANDS' is coded as 'EZQGV'. How will 'CABIN' be coded in that language?
Ans
X 1. FZYLK
X 2. FAEIQ
3. FZEHQ

X4.FDELQ
Q. 8 Which number will replace the question mark (?) in the following series?

37, 39, ?, 242, 970, 4852
Ans

1. 80
2. 122
3. 108
4. 160
Q. 9 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(2,4,18)$
$(1,9,50)$
Ans
5. $(3,5,32)$
$\times 2 .(2,5,49)$
X $3 .(6,4,10)$
$\times 4 .(5,4,18)$
Q. 10 Which letter-cluster will replace the question mark (?) to complete the given series? EGJM, GFLN, IENO, ?, MCRQ

Ans

1. KDPP
2. KPDD
3. KPDK
4. KPDP
Q. 11 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).
Statements:
Some floors are plates.
No plate is a sofa.
All gardens are plates.
Conclusions:
I. Some floors being gardens is a possibility.
II. No garden is a sofa.
III. All plates are gardens.
IV. No floors is a sofa.

Ans
X 1. Only Conclusion I follows
X 2. Only Conclusions I, II and IV follow
X 3. Only Conclusions II and III follow
4. Only Conclusions I and II follow
$Q .12$ If $A \div B$ means that $A$ is the brother of $B, A \times B$ means that $A$ is the sister of $B, A-B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the father of $\mathbf{R}$ ?
Ans

1. $P-Q \times R$

X2. $P \times Q-R$
X $3 . P \div Q \times P$
X4. $\mathrm{P}-\mathrm{Q} \div \mathrm{R}$
Q. 13 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. No $P$ is $Q$.
II. All B are Q.

Conclusions:
I. No $P$ is $B$.
II. Some $Q$ are not $P$.
III. Some B are not $Q$.

Ans

1. Both conclusions I and II follows
< 2. Both conclusions I and III follows
2. Only conclusion I follows
3. Neither conclusion follows
Q. 14 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(5,35,7)$
$(8,32,4)$
Ans $\quad \times 1 .(11,56,5)$
4. $(3,27,9)$
$\times 3 .(4,30,7)$
X 4. $(9,38,4)$
Q. 15 By interchanging the given two signs which of the following equation will be correct?
$x$ and -
Ans
X1. $7 \times 9-8 \div 2+6=25$
5. $8 \times 6-9 \div 3+10=0$

X $3.16-4 \div 2+8 \times 1=36$
X4. $5+7 \times 3-4 \div 2=8$
Q. 16 Select the set in which the numbers are related in the same way as are the numbers of the following sets:
(99, 199, 1199)
(15, 115, 1115)
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
Ans
X 1. $(11,111,1000)$
2. $(33,133,1133)$
3. $(22,222,2222)$
4. $(77,717,7117)$
Q. 17 By interchanging the given two signs which of the following equation will be correct?
$\div$ and +
Ans
X $1.18 \div 24-6 \times 6+3=32$
X2. $12-8+12 \times 9 \div 3=10$
3. $12 \div 8 \times 3+6-10=8$
4. $7+21 \times 42 \div 14-9=19$
Q. 18 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 1 '.


Figure 1


Figure 2


Figure 3

Ans

* 1.6
$\times 2.3$
$\times 3.2$
$\times 4.4$
Q. 19 In a certain code language, 'come home soon' is coded as '444', 'are you coming' is coded as ' 336 ' and 'raining badly outside' is coded as '757'. How will 'kids are happy’ be coded in that language?
Ans
- 1.543

2. 435
3. 345
4. 534
Q. 20 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Cells : Tissue :: Organs : ?
Ans
X 1. Kidney
$\times 2$. Lungs
5. Body

X 4. Heart
Q. 21 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Librarian : Library
Ans
X 1. Sailor: Aeroplane
2. Priest: Temple

X 3. Watchmen: Train
X 4. Doctor: Treatment
Q. 22 Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the one that is different.

Ans
X 1. MJG
2. GEB
3. WTQ
4. OLI
Q. 23 Select the correct mirror image of the given figure when the mirror is placed at ' $A B^{\prime}$ ' as shown.


Ans

$\times 2$.

$\times 3$.

$\times 4$.

Q. 24 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1-Empress
2-Employee
3- Empty
4- Emporium
5-Employer
Ans

1. 5, 2, 1, 4, 3
2. $2,5,1,4,3$
3. $2,5,4,1,3$
4. $5,2,4,1,3$
Q. 25 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation.
Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
$\times 1.12-142$
X2.8-62
5. $4-14$
6. 14-192

## Section : General Awareness

Q. 1 Which of the following towns was grown as a temple town during the Chola dynasty?

Ans 1. Bhillasvamin
2. Ajmer
3. Ahmedabad
4. Ahmednagar
Q. 2 The major resources of Gondwana coal, which are metallurgical coal are located in
$\qquad$
Ans

1. Damadar valley

X 2. Chambal valley
X 3. Krishna valley
X 4. Narmada valley
Q. 3 The ICC Women's cricket World Cup 2022 was held in $\qquad$ .

Ans $\times 1$. England
X 2. India
X 3. Australia
4. New Zealand
Q. 4 Identify an example of organisms that do NOT belong to the third trophic level.

Ans
$\times 1$. Fishes
2. Wolves
3. Birds
4. Cows
Q. 5 In 'Andes Mountain' of South America animal which is used for transportation is

Ans $\qquad$ .
X 1. Bullocks
$\times$ 2. Camels
X 3. Donkeys
4. Llamas
Q. 6 The early Turkish rulers ruled between $\qquad$ years over Delhi.

Ans

1. 1165 and 1198
2. 1226 and 1290
3. 1206 and 1290
4. 1192 and 1225
Q. 7 Surekha Punekar is a $\qquad$ dancer from the Indian state of Maharashtra.
Ans
X 1. Tamasha
5. Lavani
6. Povada
7. Koli
Q. 8 The 15th Men's FIH hockey World Cup will be held in the year $\qquad$ -
Ans $\times 1.2022$
$\times 2.2025$
X 3.2024
8. 2023
Q. 9 The core of earth is made up of $\qquad$ _.

Ans
X 1. cobalt and nickel
2. iron and cobalt
3. nickel and magnesium
4. nickel and iron
Q. 10 Who among the following is NOT an exponent of Mohiniyattam classical dance form?

Ans
X 1. Smitha Rajan
2. Jayaprabha Menon
3. Prateeksha Kashi
4. Radha Dutta
Q. 11 Fundamental Rights are mentioned in which part of the Constitution of India?

Ans
X 1. Part IV
2. Part III

X 3. Part VI
4. Part IX
Q. 12 The famous hill station udagamandalam is also known as $\qquad$ .

Ans $\times 1$. Kodaikanal
2. Shivpuri
3. Ooty
4. Mussorie
Q. 13 The Council of Ministers shall not exceed $\qquad$ \% of the total number of members of the Assembly of States.

Ans

1. 15
2. 20
3. 12
4. 10
Q. 14 The United Nations Environment Programme has signed a Memorandum of Understanding with the $\qquad$ government to support its 'Majhi Vasundhara' campaign.

Ans

1. Maharashtra
2. Rajasthan
3. Karnataka
4. Gujarat
Q. 15 Among the following, which contains the lowest amount of sugar?

Ans
X 1. Apple
2. Mango
3. Potato
4. Banana
Q. 16 The Family Courts (Amendment) Bill was introduced in Lok Sabha on July 18, 2022. Under this act, which of the following states has set up Family Courts?
Ans

1. Himachal Pradesh
2. Arunachal Pradesh
3. Assam
4. Gujarat
Q. 17 Which of the following organisations of the Government of India has been reporting the GDP at factor cost and at market prices?

Ans
(1. Reserve Bank of India
2. National Sample Survey Organisation
3. Central Statistics Office
4. NITI Aayog
Q. 18 Who founded the value of ' $G$ '?

Ans 1.Henry Cavendish
X 2. Michael Faraday
X 3. Isaac Newton
4. Marie Curie
Q. 19 Which Indian musician served as the artistic director of the World Music Department at the Rotterdam Music Conservatory in the Netherlands?
Ans

1. Hariprasad Chaurasia
2. Pravin Godkhindi
3. Ronu Majumdar
4. Nityanand Haldipur
Q. 20 Identify the statement that is NOT true about ATP.

Ans
X 1. nerve impulse propagation
2. Secretion of enzymes
3. Contraction of muscles
4. Protein synthesis
Q. 21 The Industrial Policy Resolution 1956, classified industries into how many categories?

Ans
2.5
3. 6
4. 4
Q. 22 The iron pillar situated at Mehrauli, Delhi is belonged to which of the following Gupta ruler?

Ans
X 1. Skandagupta
2. Samudragupta
3. Kumaragupta
4. Chandragupta II
Q. 23 Vasco da Gama, a Portuguese explorer, discovered the sea route to India in $\qquad$ -.
Ans $\times 1.1488$
2. 1498
$\times 3.1508$
X4. 1518
Q. 24 Name the classical dancer who was given the Prani Mitra Award in 1968.

Ans
X 1. Dr Padma Subrahmanyam
2. Shovana Narayan
3. Rukmini Devi Arundale
4. Bipin Singh
Q. 25 In August 2022, the Union government has appointed $\qquad$ as a director in the Prime Minister's Office (PMO).
Ans
X 1. Gopal Vittal
2. Rajesh Verma

X 3. Anuj Poddar
4. Shweta Singh

## Section : Quantitative Aptitude

Q. 1 In the first year the population of a town decreased by $5 \%$ due to the Corona virus first wave. In the next year it decreased again by $5 \%$ due to the second wave and in the third year it increased by $5 \%$. At the end of the third year the population was $9,47,625$. What was the population at the beginning of the first year?
Ans
$\times 1.7,00,000$
2. 10,00,000
$\times 3.8,97,993$
X 4. 9,92,519
Q. 2 A shopkeeper claims to sell his article at a discount of $10 \%$, but marks his articles by increasing the cost of each by $20 \%$. His gain percentage is:
Ans

1. $18 \%$
2. $12 \%$

- $3.8 \%$
4.16\%
Q. 3 Find the total surface area of a cube whose volume is $343 \mathrm{~m}^{3}$.

Ans
X $1.186 \mathrm{~m}^{2}$
2. $294 \mathrm{~m}^{2}$
3. $196 \mathrm{~m}^{2}$
4. $210 \mathrm{~m}^{2}$
Q. 4 Find the fourth proportional to the numbers 17, 272 and 19.

Ans
1.332
2. 323

X 3.403
4. 304
Q. 5 In a linear race of $500 \mathrm{~m}, A$ can beat $B$ by 50 m and in a race of $\mathbf{6 0 0} \mathrm{m}, B$ can beat $C$ by 60 m . By how many metres will A beat C in a race of 400 m ?
Ans
$\times 1.70$
$\times 2.68$
3. 76
4. 72
Q. 6 Raju, Sunil and Vishal can separately finish a work in 20, 30 and 40 days, respectively. In how many days Raju can finish the work, if he is assisted by Sunil and Vishal on alternate days, starting with Sunil?
Ans
$12 \frac{3}{5}$
×2. $12 \frac{1}{20}$
X 3. $11 \frac{1}{20}$
×4. $11 \frac{3}{5}$
Q. 7 Mohit purchased a table for Rs.1,260 and due to some scratches on its top, he sold it for Rs.1,197. What is his loss percent?

Ans
X $1.7 \%$
X $2.4 \%$
3. $6 \%$
4. $5 \%$
Q. 8 A student's marks were wrongly entered as 65 instead of 45 . Due to this, the average marks for the class got increased by $1 / 3$. The number of students in the class is:
Ans
$\times 1.40$
$\times 2.20$

- 3.60
$\times 4.30$
Q. 9 Study the following pie chart and answer the question that follows. Percentage of different types of expenditures of a household


Year 2021

- Health $=$ Education $=$ Food $=$ Entertoinment $=$ Others

The difference in the expenditure on health and entertainment is what percentage of the expenditure on food?
Ans

1. $60 \%$
2. $20 \%$
3. $30 \%$

X4. $200 \%$
Q. 10 The table given below shows the sales of bikes and cars of five companies.

| Companies | Bike | Car |
| :---: | :---: | :---: |
| P | 200 | 1200 |
| Q | 100 | 300 |
| R | 500 | 700 |
| S | 600 | 1000 |
| T | 800 | 800 |

$\mathrm{J} 1=$ The average sale of bikes of company $\mathrm{P}, \mathrm{Q}$ and R . $\mathrm{J} 2=$ The average sale of cars of company $\mathrm{R}, \mathrm{S}$ and T . What is the value of ( $\mathrm{J} 1: \mathrm{J} 2$ )?
Ans
X1.24:11
2. $8: 25$

X $3.7: 24$
X4.25:8
Q.11 Find the HCF of 4.08 and $\mathbf{6 . 6 3}$.

Ans $\times 1.0 .50$
$\times 2.0 .52$
3. 0.51
$\times 4.0 .53$
Q. 12 Which of the following will satisfy $\mathrm{a}^{2}=\mathrm{b}^{2}+(\mathrm{ab})^{2}$ for the values a and b ?

Ans $\quad$ 1. $a=\sin x, b=\cot x$
2. $a=\cos x, b=\tan x$
3. $a=\cot x, b=\cos x$
4. $a=\sin x, b=\tan x$
Q. 137 is added to a certain number and the sum is multiplied by 5 . The product is then divided by 3 and 4 is subtracted from the quotient. If the result comes to 16 , then what is the original number?
Ans
$\times 1.3$
2. 1
3. 5
4.4
Q. $14 \theta=135^{\circ} ; y=15^{\circ}$.

What is the value of $2 \cos (\theta) \sin (\gamma) ?$
Ans
$\times 1 . \frac{\sqrt{3}-1}{2}$
2. $\frac{1-\sqrt{3}}{2}$

X 3. $2-\sqrt{3}$
X4. $\sqrt{3}-2$
Q. 15 If $a b c=5$, what is the value of $\left(\frac{1}{1+a+b^{-1}}+\frac{1}{1+b+5 c^{-1}}+\frac{1}{1+\frac{c}{5}+a^{-1}}\right)$ ?

Ans
$\times 1.5$
2. 1
$\times 3 . \frac{1}{5}$
X4. $(a+b+c)$
Q. 16 If $\sec x-\cos x=4$, then what will be the value of $\frac{\left(1+\cos ^{2} x\right)}{\cos x}$ ?

Ans
$\times 1.9 / 4$
X 2.1/4
3. $2 \sqrt{5}$
$\times 4 . \sqrt{5}$
Q. 17 Study the given graph and table and answer the following question.

Data of different states regarding population of states in the year 1998


Total population of the given states $=32760000$

| States | Sex and literacy wise Population Ratio |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Sex |  | Literacy |  |
|  | M | F | Literate | Illiterate |
| Arunachal Pradesh | 5 | 3 | 2 | 7 |
| Madhya Pradesh | 3 | 1 | 1 | 4 |
| Delhi | 2 | 3 | 2 | 1 |
| Goa | 3 | 5 | 3 | 2 |
| Bihar | 3 | 4 | 4 | 1 |
| Uttar Pradesh | 3 | 2 | 7 | 2 |
| Tamil Nadu | 3 | 4 | 9 | 4 |

What was the ratio of the number of females in Arunachal Pradesh to the number of females in Uttar Pradesh?
Ans
X1. 21:50
2. $25: 16$

X 3. $16: 25$
X 4. $50: 21$
Q. 18 The radius of a circle is 5 cm . Calculate the length of a tangent drawn to this circle from a point at a distance of 10 cm from its centre.
Ans
$\times 1.5 \sqrt{5} \mathrm{~cm}$
$\times$ 2. $5 \sqrt{2} \mathrm{~cm}$
$\times$ 3. 5 cm
4. $5 \sqrt{3} \mathrm{~cm}$
Q. 19 A hollow sphere has an outer radius of 6 cm and inner radius of 3 cm . What is the volume of this hollow sphere?

Ans

1. $252 \mathrm{p} \mathrm{cm}^{3}$
2. $356 \mathrm{p} \mathrm{cm}{ }^{3}$
3. $144 \mathrm{p} \mathrm{cm}{ }^{3}$
4. $175 \mathrm{p} \mathrm{cm}^{3}$
Q.20 A certain amount will become six times in 20 years. How long does it take for the same amount to become 5 times? Assume the same rate of simple interest in each case.
Ans
X1. 16 years 8 months
5. 15 years 8 months
6. 15 years
7. 16 years
Q. 21 The table given below shows the earnings of two persons on five different days.

|  | Earnings |  |
| :---: | :---: | :---: |
| Days | A | B |
| Tuesday | 85 | 130 |
| Wednesday | 76 | 90 |
| Thursday | 45 | 102 |
| Friday | 95 | 86 |
| Saturday | 110 | 48 |

What is the difference between the total earnings of $A$ and $B$ on all the five days?
Ans

1. 45
2. 35
$\times 3.50$
3. 55
Q. 22 If the angles of a triangle are $(x-6)$ degree, $(x+26)$ degree and $8 x$ degree, then what is the value of $2 x$ ?
Ans
$\times 1.12$ degrees
4. 16 degrees
5. 48 degrees
6. 32 degrees
Q. 23 If $4(z+7)(2 z-1)=A z^{2}+B z+C$, then the value of $A+B+C$ is:

Ans
X 1.28
2. 32
$\times 3.74$
$\times 4.81$
Q. 24 In a $\triangle A B C, A D, B E$ and $C F$ are the medians from vertices $A, B$ and $C$, respectively. The point of intersection of $A D, B E$ and $C F$ is called $\qquad$ -.

Ans

1. median point
2. orthocentre
3. centroid
4. incentre
Q. 25 Factorize the following expression:
$p^{3}+27$
Ans
X 1. $(p-3)\left(p^{2}-3 p+9\right)$
X2. $(\mathrm{p}+3)\left(\mathrm{p}^{2}+3 \mathrm{p}+9\right)$
5. $(\mathrm{p}+3)\left(\mathrm{p}^{2}-3 \mathrm{p}+9\right)$

X4. $(\mathrm{p}+3)\left(\mathrm{p}^{2}-3 \mathrm{p}-9\right)$

## Section : English Comprehension

Q. 1 Select the correct passive form of the given sentence.

Did he do his mission?
Ans

1. Was his mission done by him?
2. Was his mission do by him?
3. Was his mission being done by him?
4. Had his mission been done by him?
Q. 2 Select the option that expresses the given sentence in active voice.

Does she know me?
Ans
Х 1 . Am I known by her?
$\times 2$. Is she known to me?
X 3. Is she known by me?
4. Am I known to her?
Q. 3 Select the most appropriate ANTONYM of the given word. Hazard
Ans

1. Peril
2. Jeopardy
3. Protection
4. Danger
Q. 4 Select the most appropriate synonym of the underlined word in the given sentence.

The wrestler retaliated the blow that he received.
Ans
X 1. Respected
2. Welcomed
3. Reciprocated
4. Forgave
Q. 5 Choose the incorrectly spelt word.

Ans
X 1. Contradiction
X 2. Abhorrent
3. Condencing
4. Hereditary
Q. 6 Select the INCORRECTLY spelt word.

Ans
X 1. Bouquet
2. Hygene

X 3. Mortgage
X 4. Champagne
Q. 7 Select the most appropriate meaning of the given idiom. On cloud nine
Ans
X 1. Flying
X 2. Floating
X 3. Dreaming
4. Very happy
Q. 8 Select the most appropriate synonym of the underlined word in the given sentence.

The professor refused to comment on the erroneous description of the historical events in the journal.
Ans
X 1. Suitable
X 2. Lucid
3. Inaccurate

X 4. Sensitive
Q. 9 Select the option that can be used as a one-word substitute for the given group of words.

An exaggerated statement not to be taken seriously or literally
Ans
X 1. Hypertext
2. Hyperbole

X 3. Hypocrisy
X4. Hippocrates
Q. 10 Sentences of a paragraph are given in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.Dozens of distinctly different regional languages are spoken in India, which share many characteristics such as grammatical structure and vocabulary.
B.India has had a longer exposure to English than any other country which uses it as a second language, its distinctive words, idioms, grammar and rhetoric spreading gradually to affect all places, habits and culture.
C.The historical background of India is never far away from everyday usage of

English.
D.Since the early 1600s, the English language has had a toehold on the Indian subcontinent, when the East India Company established settlements in Chennai, Kolkata, and Mumbai, formerly Madras, Calcutta, and Bombay, respectively.
Ans
<1.ABCD
X 2. ADCB
3. DBCA
< 4. DCAB
Q. 11 Rearrange the parts of the sentence in correct order.

The ministry officials
P. recommend the shortlisted names to
Q. the awards selection committee
R. sieve through the applicants' credentials and

S . have been working overtime to
Ans

1. SRPQ
2. QRPS

X 3. SPQR
X 4. PQRS
Q. 12 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

The rate of interest for the loan went out all our calculations.
Ans
X 1. under all our calculations
X 2. No substitution
2. beyond all our calculations

X 4. besides all our calculations
Q. 13 Select the most appropriate synonym of the underlined word in the following sentence.
lyadurai Solomon was a great teacher because he instilled in all the children a sense of their own worth.

Ans
X 1. stopped
X 2. took out
2. inculcate

X 4. neglected
Q. 14 Select the most appropriate meaning of the given idiom. Someone's heart is in the right place
Ans
X 1. Suddenly feel so excited or frightened that your heart beats faster
X 2. Change your opinion or the way you feel
X 3 Share secret worries with someone else
4. Someone is good even if they sometimes behave in a wrong manner
Q. 15 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She has / not written / a single novel / by three years.
Ans

1. not written
2. She has
3. by three years
4. a single novel
Q. 16 Select the option that can be used as a one-word substitute for the given group of words.

Cancel or do away with (a law or agreement)
Ans

1. Abrogate
2. Cancellation
3. Ultimation
4. Prorogation
Q. 17 Select the most appropriate option to replace the underlined segment in the given sentence.
Shyama does not laugh, nor she smiles.
Ans
X 1. nor she does smile
5. she does smile
6. nor does she smile
7. nor she smile does
Q. 18 Select the most appropriate option to fill in the blank.

The $\qquad$ weapons which are easily available in the market are a big threat to the security of some nations.
Ans
$X$ 1. heated
2. deadly
3. casual
4. valuable
Q. 19 Select the correct indirect form of the given sentence. .

Anita said to the mother, "Your child has been crying since morning."
Ans
X 1. Anita told the mother that her child was crying since morning.
2. Anita told the mother that her child had been crying since morning.
3. Anita told the mother that her child had been cry since morning.
4. Anita told the mother that your child had been crying since morning.
Q. 20 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
This year, orange prices are forecast to grow, despite an expected increase in global
$\qquad$ -.

Ans

1. production

X 2. organisation
X 3. abduction
X 4. assumption

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The saving of certain wild animals from extinction (1) $\qquad$ many years been a problem for the zoologists and other specialists; but more recently the problem has become so (2) $\qquad$ , and has received so much publicity, that most people are now (3) about it. This may at first seem strange because one of the most gratifying developments of the last few years has been the passing of strict laws to protect wild animals and the (4) $\qquad$ decline in
the hunting of big-game for sport. Why is it then that some rare wild animals are still
(5) umber?

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in the blank 1.

Ans

1. has for
2. had for
3. is for
4. was of

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The saving of certain wild animals from extinction (1) $\qquad$ many years been a problem for the zoologists and other specialists; but more recently the problem has become so (2) $\qquad$ and has received so much publicity, that most people are now (3) $\qquad$ about it. This may at first seem strange because one of the most gratifying developments of the last few years has been the passing of strict laws to protect wild animals and the (4) $\qquad$ decline in
the hunting of big-game for sport. Why is it then that some rare wild animals are still
(5) with extinction and even some of the less rare ones are rapidly declining in number?

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in the blank 2.

Ans

1. acute

X 2. rare
X 3. narrow
4. steep

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The saving of certain wild animals from extinction (1) $\qquad$ many years been a problem for the zoologists and other specialists; but more recently the problem has become so (2) $\qquad$ , and has received so much publicity, that most people are now (3) $\qquad$ about it. This may at first seem strange because one of the most gratifying developments of the last few years has been the passing of strict laws to protect wild animals and the (4) $\qquad$ decline in the hunting of big-game for sport. Why is it then that some rare wild animals are still
(5) with extinction and even some of the less rare ones are rapidly declining in
number?
SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in the blank 3.

Ans
X 1. trouble
X 2. affect
3. involved
4. concerned

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The saving of certain wild animals from extinction (1) $\qquad$ many years been a problem for the zoologists and other specialists; but more recently the problem has become so (2) $\qquad$ , and has received so much publicity, that most people are now (3) $\qquad$ about it. This may at first seem strange because one of the most gratifying developments of the last few years has been the passing of strict laws to protect wild animals and the (4) $\qquad$ decline in
the hunting of big-game for sport. Why is it then that some rare wild animals are still
(5) with extinction and even some of the less rare ones are rapidly declining in
number?
SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in the blank 4.

Ans
X 1. probable
X 2. advance
X 3. varied
4. consequent

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The saving of certain wild animals from extinction (1) $\qquad$ many years been a problem for the zoologists and other specialists; but more recently the problem has become so (2) $\qquad$ and has received so much publicity, that most people are now (3) $\qquad$ about it. This may at first seem strange because one of the most gratifying developments of the last few years has been the passing of strict laws to protect wild animals and the (4) $\qquad$ decline in the hunting of big-game for sport. Why is it then that some rare wild animals are still
(5) with extinction and even some of the less rare ones are rapidly declining in
number?
SubQuestion No : 25

## Q. 25 Select the most appropriate option to fill in the blank 5.

Ans
$X$ 1. danger
$\times 2$ 2 frighten
X 3. bullied
4. threatened

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Bannerghatta Main Road |
| Exam Date | 08/12/2022 |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1. $(400-40-4)$

2. $(300-30-7)$
3. $(1000-100-10)$
4. $(500-50-5)$
Q. 2 Which two signs should be interchanged to make the given equation correct?
$108 \div 2$ * $10+70-10=480$
Ans
5.     + and -
6. $\div$ and *
7.     + and *
8. $\div$ and -
Q. 3 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All N are K.
II. All $K$ are $P$.

Conclusion:
I. Some P are not K .
II. No $P$ is $N$.

Ans

1. Only conclusion II follows
2. Both conclusions I and II follows
3. Only conclusion I follows
4. Neither conclusion follows
Q. $4 \quad A @ B$ means ' $A$ is the sister of $B$ '.
$A$ \& $B$ means ' $A$ is the brother of $B$ '.
$A$ \# $B$ means ' $A$ is the wife of $B$ '.
$A^{\wedge} B$ means ' $A$ is the mother of $B$ '.
$A+B$ means ' $A$ is the father of $B$ '.
If H@V@U\#W\&E^X\#Z\&R^^s, then which of the following statements is NOT correct?

Ans

1. $Z$ is the maternal grandfather of $S$.
2. $W$ is the husband of $U$.
3. $E$ is the mother-in-law of $Z$.
4. U is the sister of H .
Q. 5 If $A-B$ means that $A$ is the brother of $B, A+B$ means that $A$ is the sister of $B, A \div B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the paternal uncle of $R$ ?

Ans
$X 1 . P+Q \div R$
2. $\mathrm{P} \div \mathrm{Q}-\mathrm{R}$
3. $P-Q \div R$
4. P-Q+R
Q. 6 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$189 \div 2 \times 30+18-5=159$
Ans
X1.189, 30 and,$+ \div$
2. 18,30 and $\div$, -
3. 2,30 and $\div, x$
4. 30,18 and,$- \times$
Q. 7 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).
(1)

Ans
$\times 1$

2.

$\times 3$

$\times 4$.

Q. 8 Select the figure that will come next in the following figure series.

?
$\times 1$

$\times 2$

3.

$\times 4$

Q. 9 Which letter cluster will replace the question mark (?) to complete the given series? LAFI, MCGL, ?, OGIR, PIJU

Ans
< 1. NFHO
2. NFIO
3. NEHO
4. NEIO
Q. 10 Select the correct mirror image of the given figure when the mirror is placed at the right side of the figure.


Ans

$\times 2$

d.

$\times 4$

Q. 11 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Birds : Nest :: Rabbits : ?
Ans
X 1. Garden
2. Burrow
$\times 3$. Den
$\times$ 4. Cage
Q. 12 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(4,9,16)$
$(25,36,49)$
Ans

1. $(49,64,81)$
$\times 2 .(1,16,49)$
X $3 .(36,81,49)$
$\times 4 .(49,36,81)$
Q. 13 Four different positions of the same dice are shown, the six faces of which are numbered 1 to 6 . Select the number that will be on the face opposite to the one showing ' 2 '.


Ans
$\times 1.5$

- 2.3
$\times 3.4$
$\times 4.6$
Q. 14 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with
commonly known facts, decide which of the conclusions logically follow(s) from the
statements.
Statements:
All gorillas are bears.
All pigs are bears.
All bears are tigers.
Conclusions:
I. All pigs are tigers.
II. All tigers are gorillas.
III. Some tigers are pigs.

Ans
X 1. Only conclusions I and II follow
2. Only conclusions I and III follow

X 3. All conclusions follow
X 4. Only conclusions II and III follow
Q. 15 Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.

Ans

1. OIGE
2. QKJH
3. SMLJ
4. WQPN
Q. 16 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(12,51,5)$
$(8,30,2)$
Ans
X 1. $(14,120,16)$
$\times 2 .(13,10,7)$
X $3 .(19,44,3)$
5. $(11,51,6)$
Q. 17 In a certain code language, 'LUNGS' is written as 'OXQJV' and 'POWER' is written as 'SRZHU', how will 'ELOQUENT' be written in that language?

Ans

1. HORTXHQW
2. HOQSXHQW
3. FMPPRHQW
4. FMPRVFOU
Q. 18 By Interchanging the given two numbers which of the following equation will be correct?
7 and 3
Ans
X1.3 $3 \div 1-7 \times 2+4=8$
X2. $3 \times 2+7-6 \div 3=18$
X $3.3+7 \times 4-6 \div 2=20$

- $4.7+3 \times 2-4 \div 1=13$
Q. 19 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
BASE : EASB :: MINE : EINM :: CALM : ?
Ans
X 1. AMLC
X 2. MACL
X 3.AMCL

4. MALC
Q.20 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABNC, HGWN, OLFY, VQOJ, ?
Ans
5. TDMR
6. $C M R Q$
7. CVXU
8. CNTD
Q. 21 After arranging the given words according to dictionary order, which word will come at 'Third' position?
9. Telescope
10. Telephone
11. Telegram
12. Telecast
13. Telepath

Ans

1. Telepath
< 2. Telegram
2. Telephone
3. Telecast
Q. 22 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
(52, 10, 41)
$(46,18,50)$
Ans
4. $(68,26,73)$
5. $(19,33,69)$
6. $(41,17,36)$
7. $(23,18,40)$
Q. 23 In the following question, select the missing number from the given series.

98, 70, 42, 14, ?, - 42
Ans $\quad \times 1 .-10$
2. -14
$\times 3.0$
4.-15
Q. 24 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

$\times 2$

$\times 3$

2.

M
Q. 25 In a certain code language, 'TRIGONOMETRY' is written as 'YRTEMOTRIGON', 'ACCELERATION' is written as 'NOITARACCELE'. How will 'APPRECIATION' be written in that language?
Ans

1. NOITAIAPPREC

X 2. NOITIAAPPREC
X 3. NOITAIAPRPEC
4. NOITAIPAPREC
Q. 1 The Harappan brought Gold from present-day $\qquad$ in India.
Ans
X 1. Telangana
X 2. Tamil Nadu
2. Karnataka

X 4. Kerala
Q. 2 Which of the following is NOT the component of the capital expenditure of the Government?
Ans
X 1. Expenditure on the acquisition of machinery
$\times 2$. Expenditure on the acquisition of land
X 3. Expenditure on the acquisition of building
4. Interest payments
Q. 3 Which of the following has become the first state in the country to get the L-root server?
Ans
X 1. Karnataka
2. Maharashtra
3. Rajasthan

X 4. Andhra Pradesh
Q. 4 Which minorities are mentioned in article 30 of the Indian Contituiton?

Ans

1. Linguistic and religious

X 2. Religious, cultural and linguistic
X 3. Cultural and linguistic
4. Religious and cultural
Q. 5 Which of the following climate type is found under the cold climates?

Ans
X 1. Humid subtropical
X 2. Highland
X 3. Humid continental

- 4. Tundra
Q. 6 The Hindu College was established in Banaras in $\qquad$ -.
Ans $\times 1.1771$
X 2. 1801
$\times 3.1781$

4. 1791
Q. 7 The mass number of potassium is:

Ans

1. 39
$\times 2.40$
3.38
$\times 4.37$
Q. 8 As of April 2022, who among the following musicians is NOT a recipient of the Bharat Ratna?
Ans
2. Zakir Hussain

X 2. Ravi Shankar
X 3. Bismillah Khan
4. Lata Mangeshkar
Q. 9 What do you call the rate of formation of new organic matter by consumers?

Ans $\times 1$. Tertiary productivity
2. Primary productivity
3. Net productivity
4. Secondary productivity
Q. 10 Quwwat al-Islam mosque and minaret, built during the last decade of the $\qquad$ century.
Ans
X 1. eleventh
2. thirteenth
3. fourteenth
4. twelth
Q. 11 What is the structure of the Indian judiciary?

Ans

1. Four-tier

X 2. Two-tier
X 3. Three-tier
$\times 4$. Five-tier
Q. 12 Who took charge as the chairman of The Insurance Regulatory and Development Authority of India in March 2022?
Ans

1. Debasish Panda
2. Ajay Bhushan Pandey
3. Sanjeev Sanyal
4. Ashwin Yardi
Q. 13 $\qquad$ is a city located on the confluence of river Yamuna and Ganga.
Ans

- 1. Allahabad

X 2. Agra
X 3. Kanpur
X 4. Lucknow
Q. 14 Where was the FIH Women's Indoor Hockey World Cup 2015 held?

Ans
X 1. Vienna, Austria
2. Poznan, Poland
3. Leipzig, Germany
4. Berlin, Germany
Q. 15 Which enzyme in the pancreatic juice helps in breaking down fats?

Ans
X 1. Protease
2. Pepsin
3. Lipase
4. Amylase
Q. 16 Who was the recipient of the National Devdasi Award in 2016?

Ans $\times 1$. Geeta Kapoor
X 2. R Muthukannammal
3. Prerana Deshpande

X 4. Dr Sohini Ray
Q. 17 Name the two states in which land reform were successful?

Ans
X 1. Uttar Pradesh and Bihar
2. West Bengal and Kerala
3. Maharashtra and Tamil Nadu
4. Karnataka and West Bengal
Q. 18 In which game/sport is the area of bout called a ring?

Ans

1. Taekwondo
2. Judo
3. Karate
4. Boxing
Q. 19 According to census 2011, which state has lowest literacy rate in India?

Ans
X 1. Uttar Pradesh
2. Lakshadweep
3. Mizoram
4. Bihar
Q. 20 Ekaharya is the solo artist in which Indian classical dance form?

Ans
X 1. Kathak
2. Bharatanatyam
3. Kuchipudi
4. Mohiniyattam
Q. 21 Who has taken over as President of Financial Action Task Force in July 2022?

Ans

1. T Raja Kumar

X 2. Sanjiv Kapoor
X 3. Ashwani Bhatia
X 4. Mahesh Verma
Q. 22 Salamander belongs to which of the following classes?

Ans
$\times 1$. Pieces
X 2. Reptiles
3. Aves
4. Amphibian
Q. 23 Which festival is celebrated on the last day of the holy month of Ramadan?

Ans
X 1. Milad-un-Nabi
2. Eid-ul-Fitr
3. Shab-e-Barat
4. Eid-ul-zuha
Q. 24 The craftspersons of Bidar were so famed for their inlay work in $\qquad$ .
Ans
< 1. Gold and Bronze
2. Bronze and Silver
3. Gold and Copper
4. Copper and Silver
Q. 25 The group of islands which form part of India and lie to the southeast of Indian mainland in Bay of Bengal is $\qquad$ —.
Ans

1. Lakshadweep islands
2. Andaman and Nicobar islands
3. Mannar island
4. Maldive islands
Q. 1 Evaluate the expression $\frac{\sin ^{2} 63^{\circ}+\sin ^{2} 27^{\circ}}{\cos ^{2} 17^{\circ}+\cos ^{2} 73^{\circ}}$.

Ans
$\times 1.0$
$\times 2.3$

- 3.1
$\times 4.2$
Q. 2 If $a: b=4: 5$ and $b: c=3: 10$, then $a: c$ is:

Ans $\times 1.4: 10$
X2.5:3
X 3.25:6
2.6:25
Q. 3 While finding the average marks of a class, Vikas's marks were wrongly entered as 98 in place of 89 . Due to this error, the average marks of the class were 0.25 more than the actual average. What is the number of students in the class?
Ans
$\times 1.32$
$\times 2.38$
$\times 3.34$

- 4.36
Q. 4 A certain sum of money is given at a certain rate for 3 years. Had it been given at 5\% higher rate, it would have fetched ₹ 600 more. Find the sum.
Ans
$X$ 1. ₹ 8,000
$\times 2$ ₹ 5,000
$\times$ 3. ₹ 6,000
- 4. ₹ 4,000
Q. 5 The given bar graph shows the profit (in ₹ lakhs) made by a company from 2001-2002 to 2008-2009.


The ratio of the number of years in which the company's profit is above the average profit, to those in which the profit is below the average is:

Ans
$\times 1.5: 3$
2. $4: 3$
$\times 3.3: 5$
X4.3:4
Q. 6 A thief stole jewellery from a shop at 8:15 p.m. and left on a bike at a speed of $60 \mathrm{~km} / \mathrm{h}$.

The police were informed at 8:30 p.m. If the police want to arrest the thief at 9:00 p.m., what should be the minimum speed of the police jeep?

Ans
X $1.60 \mathrm{~km} / \mathrm{h}$
X $2.75 \mathrm{~km} / \mathrm{h}$
3. $80 \mathrm{~km} / \mathrm{h}$
4. 90 km/h
Q. 7 The table given below shows the number of officers working in six companies.

| Companies | Officers |
| :---: | :---: |
| P | 150 |
| Q | 250 |
| R | 350 |
| S | 100 |
| T | 200 |
| U | 550 |

What is the ratio of number of officers working in $Q$ to the number of officers working in $R$ ?

Ans
$\times 1.7: 5$
X2.6:7
3. 7:4
4.5:7
Q. 8

If $\mathrm{K}+\frac{1}{\mathrm{~K}}=3$, then what is the value of $\mathrm{k}^{2}+\frac{1}{\mathrm{k}^{2}}$ ?
Ans
$\times 1.9$
$\times 2.6$

- 3.7
$\times 4.5$
Q. 9 What is the value of $a^{2}+b^{2}+c^{2}$, if $a+b+c=9$ and $a b+b c+c a=23$ ?

Ans
$\times 1.22$
$\times 2.32$
$\times 3.49$

- 4.35
Q. 10 If $\alpha$ is an acute angle, $\tan \left(4 \alpha-50^{\circ}\right)=\cot \left(50^{\circ}-\alpha\right)$, then find the value of $\alpha$ (in degrees).

Ans
$\times 1.60^{\circ}$
$\times 2.45^{\circ}$

- $3.30^{\circ}$
$\times 4.90^{\circ}$
Q. 11 In the following figure, if $l \| m$, then find the measures of angles marked by a and b .


Ans
X 1. $\mathrm{a}=90^{\circ}$ and $\mathrm{b}=90^{\circ}$
X2. $\mathrm{a}=55^{\circ}$ and $\mathrm{b}=125^{\circ}$
3. $\mathrm{a}=70^{\circ}$ and $\mathrm{b}=110^{\circ}$

X4. $\mathrm{a}=60^{\circ}$ and $\mathrm{b}=120^{\circ}$
Q. 12 The radius of a circle with centre at $O$ is 6 cm and the central angle of a sector is $40^{\circ}$. Find the area of the sector.

Ans

1. $6 \pi \mathrm{~cm}^{2}$
2. $5 \pi \mathrm{~cm}^{2}$
3. $4 \pi \mathrm{~cm}^{2}$
4. $8 \pi \mathrm{~cm}^{2}$
Q. 13 A and B can complete a piece of work in 13 and 17 days respectively. A begins to do the work, and they work alternatively one at a time for one day each. The whole work will be completed in:
Ans
$\times 1.17 \frac{11}{17}$ days
$\times 2.17 \frac{17}{19}$ days
З. $14 \frac{11}{17}$ days
$\times 4.11 \frac{11}{17}$ days
Q. 14 Nihit starts a business with Rs.700. After 5 months Amit and Patel joined him with Rs. 300 and Rs. 400 respectively. At the end of the year, the business gave a profit of Rs.627. Find the share of Patel in the profit.
Ans
X 1. Rs. 127
X 2. Rs. 145
5. Rs. 132

X4.Rs. 156
Q. 15 There are two circles which touch each other externally. The radius of the first circle with centre $O$ is 17 cm and radius of the second circle with centre $A$ is 7 cm . BC is a direct common tangent to these two circles, where $B$ and $C$ are points on the circles with centres $O$ and $A$, respectively. The length of $B C$ is:

Ans
$x$ 1. $2 \sqrt{118} \mathrm{~cm}$
2. $2 \sqrt{119} \mathrm{~cm}$

X 3. $2 \sqrt{113} \mathrm{~cm}$
X4. $2 \sqrt{117} \mathrm{~cm}$
Q. 16 In a $\triangle P R Q, A B$ is drawn parallel to $Q R$, cutting sides at $A$ and $B$ where length of $P Q=$ 6 cm , length of $Q R=8 \mathrm{~cm}$ and length of $Q A=3 \mathrm{~cm}$. What is the length of $A B$ ?
Ans

1. 4.0 cm
2. 4.2 cm
3.5 .0 cm
3. 2.4 cm
Q. 17 The pie chart given below shows the number of boys in 8 schools. The total number of boys in all these 8 school is 10,000 . Number of boys in a particular school is shown as a percent of total number of boys in all these 8 schools.

$2 \%$
What is the ratio of total central angle formed by sector $C, D$ and $F$ to the total central angle formed by sector $\mathrm{A}, \mathrm{G}$ and H ?
Ans
4. $20: 43$
5. $44: 21$
6. $17: 39$
7. $19: 44$
Q. 18

If $x+\frac{1}{x}=2 \sqrt{5}$ where $x>1$, then the value of $x^{3}-\frac{1}{x^{3}}$ is:

Ans
$\times 1.82$

- 2.76
$\times 3.86$

4. 78
Q. 19 If 7 -digit number $678 p 37 q$ is divisible by 75 and $p$ is not a composite, then the values of $p$ and $q$ are:

Ans $\quad$ ⒈ $p=5, q=5$
2. $p=3, q=0$
3. $p=3, q=5$
4. $p=2, q=5$
Q. 20 If Tan $\mathrm{A} \operatorname{Tan} \mathrm{B}+\frac{\cos \mathrm{x}}{\cos \mathrm{A} \cos \mathrm{B}}=1$, then $x=$ ?

Ans

- 1. B

2. A
3. $A+B$
-4.A-B
Q. 21 If the cost of 20 books is equal to the selling price of 18 books, then the gain percentage is:

Ans

1. $11 \frac{1}{9} \%$
2. $11 \frac{1}{3} \%$

X 3. $11 \frac{2}{9} \%$
X4. $10 \frac{1}{9} \%$
Q. 22 A cuboid of sides $12 \mathrm{~cm}, 18 \mathrm{~cm}$ and 27 cm is melted to form a cube. What is the ratio of the total surface area of the cuboid to that of the cube?

Ans
$\times 1.18: 17$
X 2.17:19
2. 19:18
$\times 4.17: 23$
Q. 23 A dealer offers $45 \%$ discount on a packet. She offers a further discount of $\mathbf{2 5 \%}$ on the reduced price on cash payment. What does a customer has to pay for the packet of ₹ 2,800 , in cash, to avail both discounts?
Ans
X 1. ₹1,480
X 2. ₹ 1,350
2. ₹ 1,155

X4. ₹1,230
Q. 24 If the HCF of $x y^{3}, x^{2} y$ and $x^{3} y^{4}$ is $x y$, then their LCM is $\qquad$ .

Ans

1. $x^{3} y^{4}$
x 2. $x^{3} y^{3}$
x 3. $x^{4} y^{3}$
X4. $x^{4} y^{4}$
Q. 25 The following graph shows the results of students in a school.


In which years is the difference in number of students who passed to those who
failed maximum?

Ans
X1.1991-92
2. 1993-94
3. 1992-93
4. 1994-95
Q. 1 Select the option that expresses the given sentence in passive voice.

One should keep one's promise.
Ans

1. Promises should be kept.
2. One should keep their promise.
3. One's promise should be kept by one.
4. Promises should be kept by one.
Q. 2 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

It was an horrible day at the office for Roy, but he didn't allow it to spoil his evening plans.
Ans

1. was a horrible day at the office
2. were a horrible day at office
3. No substitution
4. horrible day at the office
Q. 3 Identify the most appropriate ANTONYM of the underlined word in the given sentence. A balloon contracts when air is blown into it.

Ans
X 1. Controls
X 2. Repulses
3. Shrinks
4. Expands
Q. 4 Select the most appropriate synonym of the given word.

Empty
Ans $\times 1$. Priceless
2. Vacant
3. Packed
4. Filled
Q. 5 Select the most appropriate synonym of the given word.

Wavering
Ans
X 1. Sickly
X 2. Drenching
3. Fluctuating
4. Unconvincing
Q. 6 Select the most appropriate collocation to substitute the underlined word in the given sentence.

The MNC is about to be bankrupt, according to reliable sources.
Ans
X 1. take bankrupt
2. go bankrupt
3. come bankrupt
4. give bankrupt
Q. 7 In the given sentence, one word may have been incorrectly spelt. Select the correctly spelt word from the given alternatives. If there is no error, select 'No error' as your answer.

The staff members were attempting to manoeuvre the board of directors for the abolition of pay disparity
Ans
X 1. manouever
X 2. manoeuver
X 3. manouvre
4. No error
Q. 8 Select the correct active form of the given sentence. Her wooden almirah has been destroyed by the termites.
Ans $\times 1$. The termites destroyed her wooden almirah.
2. The termites could destroy her wooden almirah.
3. The termites had destroyed her wooden almirah.
4. The termites have destroyed her wooden almirah.
Q. 9 Choose the correct meaning of the given idiom. Down the tubes

Ans $\quad$ 1. Minting money
2. Failing completely
3. Being informal
4. Going to swim
Q. 10 Rearrange the parts of the sentence in correct order.

The researchers
P. decision centers called the orbitofrontal
Q. analyzed the electrical activity recorded
R. cortex and dorsal anterior cingulate cortex
S. from neurons in two of the brain's

Ans

1. QSPR
2. RSPQ
3. RPQS
4. PQSR
Q. 11 Select the appropriate adverb for the underlined word in the sentence.

We considered in brief the long term solution to the problem.
Ans

1. briefly
2. briefless
3. brief
4. briefness
Q. 12 Select the most appropriate option that can substitute the underlined segment in the given sentence.
My uncle is a colonel who gets extremely angry over petty issues every now and then.
Ans
5. furious

X 2. fierce
$X$ 3. heated
4. violent
Q. 13 Select the correct direct form of the given sentence. Rohan asked me if Rohit still cried

Ans

1. Rohan said to me, "Did Rohit still cry?"
2. Rohan says to me, "Does Rohit still cry?"
3. Rohan said to me, "Does Rohit still cry?"
4. Rohan said to me, "Has Rohit still cried?"
Q. 14 Select the INCORRECTLY spelt word in the following sentence.

In the coming millenium, some noticeable technological advancements will be accomplished.
Ans
X 1. noticeable
2. technological
3. advancements
4. millenium
Q. 15 Select the most appropriate option to fill in the blank.

APJ Abdul Kalam's house, located on Mosque Street was within the reach of the famous temple of Rameswaram. It was just $\qquad$ from it.
Ans

1. a stone's throw away
2. at one's fingertip
3. at arm's length
4. from pillar to post
Q. 16 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.On my way to school, I met my uncle who had returned from England.
B.Then I invited him to my place.
C. He was very pleased to see me and asked about my parents.
D.On he asking me about my parents, I told him my father recalls him frequently.

Ans
X 1. CABD
$\times 2$. ABCD
3. ACDB
4. BACD
Q. 17 Select the most appropriate ANTONYM of the given word.
part
Ans

1. Fragment
2. Joint
3. Bit
4. Whole
Q. 18 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The scooter that / I am using / these days is belonging / to my brother.
Ans
X 1. to my brother
X 2. I am using
X 3. The scooter that
4. these days is belonging
Q. 19 Select the option that can be used as a one-word substitute for the given group of words.

To keep postponing doing a task later because you're lazy
Ans

1. Procrastinate
2. Multi-task
3. Leave
4. Diligent
Q. 20 Select the most appropriate collocating word to fill in the blank.

There is $\qquad$ traffic every morning.
Ans
$X$ 1. long
2. heavy

X 3.big
X 4. lengthy

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Deforestation, wildfires and pollution cause animals (1) $\qquad$ lose their homes. Animals may be (2) $\qquad$ by their surroundings. Most individuals are (3) $\qquad$ that they are taking down an animal's home when they cut down trees for wood. Animal (4) is also lost as a result of wildfires. The main causes of an animal becoming
(5) $\qquad$ are poaching and smuggling. Pollution is extremely harmful to animals and their environments. Animals are interested and try to eat the pollution-causing things. Furthermore, some rivers and natural resources are becoming polluted, forcing animals to relocate.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. to
2. from
3. through
4. of

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Deforestation, wildfires and pollution cause animals (1) $\qquad$ lose their homes. Animals may be (2) $\qquad$ by their surroundings. Most individuals are (3) $\qquad$ that they are taking down an animal's home when they cut down trees for wood. Animal (4)
(5) $\qquad$ is also lost as a result of wildfires. The main causes of an animal becoming are poaching and smuggling. Pollution is extremely harmful to animals and eir environments. Animals are interested and try to eat the pollution-causing things. Furthermore, some rivers and natural resources are becoming polluted, forcing animals to relocate.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. effected
$\times 2$. obsoleted
X 3. intensified
4. affected

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Deforestation, wildfires and pollution cause animals (1) $\qquad$ lose their homes. Animals may be (2) $\qquad$ by their surroundings. Most individuals are (3) $\qquad$ that they are taking down an animal's home when they cut down trees for wood. Animal (4) is also lost as a result of wildfires. The main causes of an animal becoming
(5) $\qquad$ are poaching and smuggling. Pollution is extremely harmful to animals and their environments. Animals are interested and try to eat the pollution-causing things. Furthermore, some rivers and natural resources are becoming polluted, forcing animals to relocate.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. apprehensive
2. unaware
3. bad
4. conscious

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Deforestation, wildfires and pollution cause animals (1) $\qquad$ lose their homes. Animals may be (2) $\qquad$ by their surroundings. Most individuals are (3) $\qquad$ that they are taking down an animal's home when they cut down trees for wood. Animal (4)
(5) $\qquad$ is also lost as a result of wildfires. The main causes of an animal becoming are poaching and smuggling. Pollution is extremely harmful to animals and eir environments. Animals are interested and try to eat the pollution-causing things. Furthermore, some rivers and natural resources are becoming polluted, forcing animals to relocate.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. environment
2. habitat

X 3. husbandry
X4. domain

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Deforestation, wildfires and pollution cause animals (1) $\qquad$ lose their homes. Animals may be (2) by their surroundings. Most individuals are (3) $\qquad$ that they are taking down an animal's home when they cut down trees for wood. Animal (4) is also lost as a result of wildfires. The main causes of an animal becoming
(5) $\qquad$ their environments. Animals are interested and try to eat the pollution-causing things. Furthermore, some rivers and natural resources are becoming polluted, forcing animals to relocate.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. wild
2. endangered
3. infused
4. destructive

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | ON Digital Zone iDZ Kovilambakkam |
| Exam Date | 08/12/2022 |
| Exam Time | $9: 00$ AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

Ans

1. LEB
2. JZF
3. TJP
4. MCl
Q. 2 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
PMRF, PDZV, PUHL, PLPB, ?
Ans $\times 1 . \mathrm{PCMH}$
5. PHTD
6. PCXR
7. PQRS
Q. 3 Which number will replace the question mark (?) in the following series?

10, 15, 25, 45, 85, ?
Ans
-1. 160
2. 165
3. 170
4. 150
Q. 4 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
11 * 3 * 11 * 2 * $9=10$
Ans

1. $\times, \div-,+$
2. $\div, x,-,+$
3. $\div++,-, \times$
4. $\times, \div+,-$
Q. 5 Which two signs and two numbers should be interchanged in the following equation to make it correct?

Ans
X1. 264 and $9, \div$ and -
5. 264 and $9,+$ and -
6. 4 and $24, \div$ and +
7. 4 and $9,-$ and $\times$
Q. 6 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
11:31 :: ? : 25 :: 14 : 40
Ans
-1.8
$\times 2.10$

- 3.7

4. 9
Q. 7 Select the figure that will replace the question mark (?) in the following figure series.


Ans

$\times 2$.

3.

$\times 4$.

Q. 8 In a certain code language, 'FACES' is written as 'AFCSE' and 'JEANS' is written as 'EJASN'. How will 'HANGS' be written in that language?
Ans

1. AHSNG
2. AHSGN
3. AHNGS
4. AHNSG
Q. 9 If $L \times M$ means that $L$ is the mother of $M, L-M$ means that $L$ is the father of $M, L \div M$ means that $L$ is the sister of $M$, then which of the following expression shows that $R$ is the brother of $\mathbf{P}$ ?

Ans

1. $P \div R-Q$
2. $P \times R-Q$
3. $P \div Q-R$
4. $P \div R \times Q$
Q. 10 After arranging the given words according to dictionary order, which word will come at
'Fourth' position?
5. Agenda
6. Agentry
7. Ageism
8. Ageist
9. Agency

Ans
X 1. Ageist
2. Agenda
3. Agentry
4. Agency
Q. 11 In a certain code language, 'FANCY' is written as 'ACPEH' and 'TRACTOR' is written as 'TTCEVQV'. How will 'CARROT' be written in that language?
Ans
X 1. ECTTQV
X 2. ECTTQT
X 3. EBTTPV
4. VCTTQE
Q. 12 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).
(*)

Ans

2.

$\times 3$.

$\times 4$

Q. 13 Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All reds are pinks.
All whites are pinks.
All pinks are oranges.
Conclusions:
I. All whites are oranges.
II. All oranges are reds.
III. Some oranges are whites.

Ans

1. Only conclusions I and III follow
2. Only conclusions I and II follow
3. All conclusions follow
4. Only conclusions II and III follow
Q. 14 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans

1. 14 - 208
2. $18-334$
3. $12-154$
4. $16-266$
Q. 15 A \& B means ' $A$ is the wife of $B$ ' $A$ \# B means ' $A$ is the father of $B$ '
$A @ B$ means ' $A$ is the son $B$ '
$A \% B$ means ' $A$ is the husband of $B$ '
$A+B$ means ' $A$ is the mother of $B$ '
If $A \& B \# C \& D @ E \% F+G$, then how is A related to $D$ ?
Ans
X 1. Daughter-in-law
5. Mother-in-law

X 3. Mother
X 4. Sister
Q. 16 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants / vowels in the word.)
Lethargy : Alertness :: Gentle : ?
Ans

1. Destroy
2. Kind

X 3. Annoying
4. Harsh
Q. 17 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
$(24,9,21)$
$(34,16,33)$
Ans
X $1 .(34,8,28)$
X 2. $(53,6,34)$
X $3 .(43,17,41)$
4. $(42,9,30)$
Q. 18 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).
(×)


Ans
$\times 1$.

2.

$\times 3$

$\times 4$

Q. 19 In the following question below are given some statements followed by some
conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All $R$ are $M$.
II. All L are M.

Conclusions:
I. Some M are not R.
II. Some L are R.
III. Some M are L.

Ans $\quad$ 1. Both conclusions II and III follows
2. Only conclusion III follows

X 3. Both conclusions I and III follows
X 4. Neither conclusion follows
Q. 20 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
76:11:: 88 : ? :: 68 : 9
Ans
$\times 1.12$

- 2. 14
$\times 3.18$
$\times 4.15$
Q. 21 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 4 '.


Figure 1


Figure 2


Figure 3

Ans
$\times 1.1$
2.3
$\times 3.6$
$\times 4.2$
Q. 22 By interchanging the given two signs and numbers which of the following equation will be not correct?

- and $\div, 8$ and 2
l. $5+7-8 \times 4 \div 2=9$
II. $3+8 \times 4-2 \div 1=3$

Ans
X 1. Neither I nor II
X 2. Only II
X 3. Both I and II
4. Only I
Q. 23 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 24 Which letter cluster will replace the question mark (?) to complete the given series? CLPM, FNQN, ?, LRSP, OTTQ

Ans
, 1. IPRO
X 2. JPRO
X 3.IPSO
X 4. IQRO
Q. 25 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Lake : Land :: Island : ?
Ans
$\times 1$. Plains
2. Water
$\times 3$. Hills
X4. Dessert
Q. 1 Acid changes the colour of blue litmus to $\qquad$ -.
Ans $\times 1$. yellow
2. red

X 3. pink
4. orange
Q. 2 Which of the following hills and their region are correctly matched?

Ans
X 1. Patkai hills - Western ghats
2. Mizo hills - Eastern ghats
3. Shevaroy hills - Western ghats
4. Javadi hills - Eastern ghats
Q. 3 Under the Constitution of India, the Constitutional Head of the Executive of the Union is the $\qquad$ .
Ans

1. Prime Minister
2. President

X 3. Supreme Court Chief justice
4. Speaker of the Rajya Sabha
Q. 4 Kathak dancer, Sitara Devi was awarded which of the following awards in 1973 ?

Ans
X 1. Padma Vibhushan
2. Padma Bhushan
3. Sangam Kala
4. Padma Shri
Q. 5 Which Article of the Constitution of India deals with the recognition of the right to education as a Fundamental Right?
Ans
X 1. Article 300 A
2. Article 20
3. Article 33
4. Article 21 A
Q. 6 During the period between 1950 and 1990, the proportion of GDP contributed by agriculture significantly $\qquad$ _.

Ans

1. doubled
2. remained constant
3. increased
4. declined
Q. 7 What is the product of a reaction of calcium carbonate, water and carbon dioxide?

Ans
X 1. Calcium oxide
X 2. Calcium hydroxide
3. Hydrochloric acid
4. Calcium hydrogen carbonate
Q. 8 Fa Xian began his journey back home from which of the following Indian state?

Ans
X 1. Bihar
X 2. Maharashtra
3. Bengal

X 4. Odisha

| Question ID : | $\mathbf{2 6 4 3 3 0 1 0 5 1 9 1}$ |
| ---: | :--- |
| Status : | Not Attempted and <br> Marked For Review |

Q. 9 Gross primary deficit can be expressed as $\qquad$ -.
Ans

1. Gross fiscal deficit - Net interest liabilities
2. Capital expenditure - Revenue deficit
3. Gross fiscal deficit + Net interest liabilities
4. Revenue deficit + Capital expenditure

| Question ID : | 264330105391 |
| ---: | :--- |
| Status :Not Attempted and <br> Marked For Review |  |

Chosen Option: --
Q. 10 The news print sector in our country is governed by which order from the following?

Ans $\times 1$. National Print Control Order, 2001
2. Newsprint Control Order, 2004
3. News Print Commission Order, 2006
4. National Press Control Order, 2003
Q. 11 Which element of group 13 is a soft metal with a low melting point (303K) and is widely used in doping semiconductors and producing solid-state devices such as transistors?
Ans
$X$ 1. Aluminium
X 2. Boron
X 3. Thallium
2. Gallium
Q. 12 What type of isomerism exists in compounds containing two or more complexes, each of which contains a different set of ligands that can in principle be replaced with a ligand of the other complex?
Ans

1. Coordination isomerism

X 2. Solvate Isomerism
X 3. Linkage isomerism
4. Ionisation isomerism
Q. 13 "Radcliffe line" separate India with which country?

Ans
X 1. China
2. Pakistan

X 3. Nepal
X 4. Bangladesh
Q. 14 Which of the following rocks is formed by the cooling and crystallisation of magma?

Ans

1. Granite
2. Chalk
3. Coal
4. Shell
Q. 15 In July 2022, who was appointed as the deputy election commissioner of India?

Ans

1. R K Gupta
2. Asit Rath
3. Suranjan Das
4. R. Dinesh
Q. 16 Who among the following personalities is an exponent of Kathak dance in India?

Ans

1. Prerna Shrimali

X 2. Usha Uthup
X 3. Suman Kalyanpur
X 4. Monali Thakur
Question ID : 26433054329
Status : Not Attempted and
Marked For Review
Q. 17 Who has been appointed as the chairperson of the Central Board of Secondary Education (CBSE) in May 2022?
Ans
X 1. Nalin Negi
2. Nidhi Chibber

X 3. Satyendra Prakash
4. Ashish Jha
Q. 18 Which of the following Gharanas does Padma Bhushan Kishori Amonkar belong to?

Ans
X 1. Gwalior
2. Kirana
3. Patiala
4. Jaipur - Atrauli
Q. 19 Who among the following was the founder of Visva-Bharati University?

Ans
X 1. Madan Mohan Malaviya
X 2. Lala Hardayal
X 3. Swami Vivekananda
4. Rabindranath Tagore
Q. 20 Which state government launched the Mission Bhumiputra in August 2022?

Ans
X 1. Nagaland
X 2. Bihar
X 3. Sikkim
2. Assam
Q. 21 In the $\qquad$ Sarojini Naidu persuaded Mahatma Gandhi to allow women to join the movement.

Ans

1. Quit India Movement
2. Champaran Satyagraha
3. Salt Satyagraha
4. Non-Cooperation Movement
Q. 22 The World Para Athletics Grand Prix 2022 was held in $\qquad$ -

Ans
X 1. Sharjah
2. Istanbul
3. Dubai
4. Doha
Q. 23 Rajkumar Singhajit Singh, a leading exponent and guru of Indian classical Manipuri dance form, was awarded which of the following Indian civilian honours in $1986 ?$

Ans
X 1. Padma Bhushan
2. Padma Shri
3. Bharat Ratna
4. Padma Vibhushan
Q. 24 Which of the following players is associated with badminton?

Ans

1. K Srikanth

X 2. Sankalp Gupta
X 3. Monica Batra
4. Archana Kamat
Q. 25 Subsidiary alliance treaty was imposed on Awadh in $\qquad$ .
Ans
X 1.1802
X2. 1803

- 3.1801

X4. 1804

[^7]Q. 1 If $\sin Y=x$, then what will be the value of $\cos 2 Y\left(\right.$ where $\left.0 \leq Y \leq 90^{\circ}\right)$ ?

Ans
X 1. $(\sqrt{ } 2-1) x$
X 2. $\sqrt{ } 2 x$
X $3.1-2 x$
4. $1-2 x^{2}$
Q. 2 What is the value of $(a+b)^{2}-(a-b)^{2}$ ?

Ans
$\times 1.2\left(a^{2}+b^{2}\right)$
2. $4\left(a^{2}+b^{2}\right)$
3. 8 ab
4. 4 ab
Q. 3 The table given below shows the number of monuments in 5 different cities.

| Cities | Monuments |
| :---: | :---: |
| A | 40 |
| B | 30 |
| C | 120 |
| D | 150 |
| E | 50 |

What is the ratio of number of monuments in $B$ to the number of monuments in $D$ ?
Ans
$\times 1.3: 1$
X2.1:4
X $3.5: 1$
4. 1:5
Q. 4 The following table shows the production of different types of two wheelers from 1993 to 1998.

Number of two wheelers (in 1000s)

| Type Year | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A | 36 | 34 | 40 | 35 | 37.5 | 40 |
| B | 20 | 22 | 25 | 23 | 19.5 | 18 |
| C | 14 | 22 | 16 | 25 | 29 | 35 |
| D | 60 | 62 | 67.5 | 75 | 76 | 80 |
| E | 40 | 45 | 48 | 50 | 80 | 105 |
| F | 45 | 52 | 55 | 60 | 57.5 | 56 |
| Total | 215 | 237 | 251.5 | 268 | 299.5 | 334 |

What is the percentage increase in the total production of all types of two wheelers in 1998 in comparison to 1996 (rounded off to the nearest integer)?
Ans
X 1. $27 \%$
2. $25 \%$

X 3. $24 \%$
X4. $26 \%$
Q. 5 Three circles of radius 7 cm are kept touching each other. The string is tightly tied around these three circles. What is the length of the string?
Ans
人1. $42+7 \mathrm{p} \mathrm{cm}$
X2. $21 p+14 c m$

- $3.42+14 \mathrm{p} \mathrm{cm}$

X4.7+14p cm
Q. 6 A dealer marks his goods at $15 \%$ above the cost price and allows a discount of $5 \%$ for cash payment. His profit percentage is:
Ans
1.9.25\%

X 2. 7.25\%
X 3.11.25\%
4. 10.25\%
Q. 7 What is the area of the curved surface of a right circular cone with height 8 m and slant height 10 m ?

Ans
X $1.60 \mathrm{~m}^{2}$
2. $60 \pi \mathrm{~m}^{2}$
3. $40 \mathrm{~m}^{2}$
4. $40 \pi \mathrm{~m}^{2}$
Q. 8 The given table shows the production of units of different products in different months.

| Product | March | June | September | December |
| :---: | :---: | :---: | :---: | :---: |
| Z | 15 | 18 | 12 | 19 |
| Y | 18 | 13 | 17 | 8 |
| X | 14 | 17 | 19 | 16 |
| W | 12 | 14 | 11 | 15 |

Y's total production is what percentage of $Z$ 's total production?

Ans
$\times 1.88 .5 \%$
$\times 2.89 .5 \%$
-3. $87.5 \%$
$\times 4.114 .28 \%$
Q. 9 In $\triangle A B C, P$ and $Q$ are points on $A B$ and $B C$, respectively, such that $P Q \| A C$. Given that $A B=26, P Q=7$ and $A C=10$ find the value of $A P$.
Ans
$\times 1.7 .1$
2. 7.8
$\times 3.18 .2$
$\times 4.16 .4$
Q. 10 A shopkeeper advertises for selling cloth at 7\% loss. However, by using a false scale of length 1 metre he actually gains $24 \%$. What will be the actual length he uses instead of 1 metre ?

Ans
1.75 cm
$\times 2.31 \mathrm{~cm}$
3.76 cm
4.93 cm
Q. 11 A 100 ml solution of $\mathrm{H}_{2} \mathrm{SO}_{4}$ having concentration of $20 \%$ is mixed with a $\mathbf{5 0 \%}$
concentrated x ml mixture such that the net mixture is $30 \%$ concentrated. Determine x .
Ans
$\times 1.70 \mathrm{ml}$
2. 80 ml
3. 60 ml
4.50 ml
Q. 12 ABCD is a square and $\triangle \mathrm{MAB}$ is an equilateral triangle. MC and MD are joined.

What is the degree measure of $\angle M D C$ ?


Ans
$\times 1.78^{\circ}$
$\times 2.60^{\circ}$
$\times 3.65^{\circ}$
4. $75^{\circ}$
Q. 13 Ten men begin to do a work. But after some days, four of them left the job. As a result, the job that could have been completed in 40 days is completed in 50 days. How many days after the commencement of the work did the four men leave?
Ans
$\times 1.30$
$\times 2.20$
$\times 3.35$
4. 25
Q. 14 If $A+B=C$, then $\tan A \tan B \tan C=$ ?

Ans
X 1. $\tan C+\tan A-\tan B$
X 2. $\tan \mathrm{C}+\tan \mathrm{A}+\tan \mathrm{B}$
X 3. $\tan A-\tan B-\tan C$
2. $\tan \mathrm{C}-\tan \mathrm{A}-\tan \mathrm{B}$
Q. 15 If $m$ and $n$ are two positive real numbers such that $9 m^{2}+n^{2}=40$ and $m n=4$, then the value of $3 m+n$ is:

Ans
$\times 1.160$
$\times 2.64$
$\times 3.10$
4. 8
Q. 16 The factors of $x^{2}+4 y^{2}+4 y-4 x y-2 x-8$ are:

Ans

1. $(x-2 y-4)(x-2 y+2)$
2. $\left(x^{2}-2 y-4\right)\left(x^{2}-2 y+2\right)$

X 3. $(x+2 y-4)(x+2 y+2)$
X4. $\left(x^{2}-2 y-4\right)\left(x^{2}+2 y+2\right)$
Q. 17 The HCF of three numbers 105,335 and 465 will be:

Ans
$\times 1.11$

- 2.5
$\times 3.7$
4.3
Q. 18 A number when divided by 221 , leaves a remainder 30 . If the same number is divided by 13 , the remainder will be:
Ans

7. 4
$\times 2.3$
$\times 3.2$
$\times 4.1$
Q. 19 The given table shows the number of new employees who joined in different categories of employees in an organisation and also the number of employees from these categories who left the organisation every year since
the foundation of the organisation in 2015. Study the table and answer the questions that follow.

| Year | Business Analysts |  | Accountants |  | Sales Representatives |  | Peons |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Joined | Left | Joined | Left | Joined | Left | Joined | Left |
| 2015 | 80 | 0 | 35 | 0 | 50 | 0 | 73 | 0 |
| 2016 | 63 | 21 | 26 | 16 | 46 | 20 | 34 | 23 |
| 2017 | 78 | 28 | 15 | 5 | 38 | 15 | 48 | 29 |
| 2018 | 42 | 39 | 20 | 38 | 34 | 0 | 14 | 12 |
| 2019 | 67 | 44 | 14 | 24 | 22 | 30 | 21 | 30 |

What was the total number of accountants working in the organisation in the year 2019?
Ans

1. 110
2. 83
3. 27
4. 193
Q. 20 In an election between two candidates, a candidate who gets $76 \%$ of the total votes polled is elected by a majority of 1480 votes. What is the total number of votes polled? (Consider integral part only)
Ans
X 1.2800
5. 1800
6. 2846
7. 1846
Q. 21 If $x=8(\sin \theta+\cos \theta)$ and $y=9(\sin \theta-\cos \theta)$, then the value of $\frac{x^{2}}{8^{2}}+\frac{y^{2}}{9^{2}}$ is:

Ans
$\times 1.4$
$\times 2.6$
$\times 3.8$
4. 2
Q. 22 AB is the diameter of a circle with centre 0 . If P be a point on the circle such that $\angle \mathrm{AOP}=110^{\circ}$, then the measure of $\angle O B P$ is:
Ans
$\times 1.50^{\circ}$
$\times 2.65^{\circ}$
$\times 3.60^{\circ}$

- $4.55^{\circ}$
Q.23 $A$ is chasing $B$ in the same interval of time. $A$ jumps 8 times, while $B$ jumps 6 times. But the distance covered by $A$ in 7 jumps is the same as that of $B$ in 5 jumps. The ratio between the speeds of $A$ and $B$ is $\qquad$ -.
Ans
X $1.32: 24$

2. $30: 56$
3. $20: 21$
4. $28: 36$
Q. 24 In a certain duration of time, a sum become 2 times itself at the rate of 5\% per annum simple interest. What will be the rate of interest if the same sum becomes 5 times itself in the same duration?
Ans
5. 20 Percent
6. 16 Percent

X 3.10 Percent
X 4. 18 Percent
Q. 25 A mixture contains milk and water in the ratio of 5:3, respectively. On adding 7 litres of water, the ratio of milk to water becomes 1:2. Find the quantity of milk in the mixture.
Ans
X 1.7 litres
X 2. 10 litres
2. 5 litres
$\times 4.3$ litres

## Section : English Comprehension

Q. 1 Select the INCORRECTLY spelt word in the following sentence.

The outcome of the survey was a critical intervention to the questionaire prepared by Suraj and his committee.
Ans
. questionaire
2. committee
3. intervention
4. outcome
Q. 2 Select the correct active form of the given sentence.

A terrible disaster was witnessed by our country.
Ans $\times 1$. Our country had witnessed a terrible disaster.
2. Our country is witnessing a terrible disaster.
3. Our country witnessed a terrible disaster.
4. Our country witnesses a terrible disaster.
Q. 3 Select the option that can be used as a one-word substitute for the given group of words/phrase.

Fail to notice; ignore; condone (an offence etc.)
Ans

1. Overlong
2. Overlie
3. Overly
4. Overlook
Q. 4 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
He knows that / he has no other option / but to work hard.
Ans
X 1. He knows that
5. but to work hard
$X$ 3. he has no other option
X4. No error
Q. 5 Select the most appropriate meaning of the given idiom.

Cudgel one's brain
Ans
X 1. Thinking about a debate
2. To think hard

X 3. Not to think
4. To overthink
Q. 6 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

When I was your age, I was working two jobs to provide for my family.
Ans
$\times 1$. to providing for
X 2. for provide to
X 3. on providing
4. No substitution
Q. 7 Select the sentences that contains no spelling errors.

Ans
X 1. The hippoputamus, also known as 'river horse', lives throughout sub Saharan Africa.
X 2. The hipopotamus, also known as 'river horse', lives throughout sub Saharan Africa.
X 3. The hippopotmaus, also known as 'river horse', lives throughout sub Saharan Africa.
4. The hippopotamus, also known as 'river horse', lives throughout sub Saharan Africa.
Q. 8 Select the most appropriate ANTONYM of the given word.

Bulk
Ans

1. Handful
2. Heavy
3. Staple
4. Brunt
Q. 9 Select the most appropriate option to fill in the blank.

She frankly confessed that she couldn't $\qquad$ to purchase a car then.
Ans
X 1. spend
2. afford
3. stand
4. tolerate
Q. 10 Select the most appropriate ANTONYM of the underlined word.

The natural environment is in contrast with the 'built environment' which refers to areas that have been fundamentally transformed and influenced by human activity, such as cities, towns, substructures and so on.
Ans
X 1. Hackneyed
2. Inimical
3. Bipartisan

X 4. Interested
Q. 11 Select the correct indirect form of the given sentence.

The blind man said to me, "Can you help me cross the road?"
Ans

1. The blind man asked me if I could help him cross the road.
2. The blind man asked me if I will help him cross the road.

X 3. The blind man asked me if I could help him crossed the road.
X 4. The blind man asked me if I can help him cross the road.
Q. 12 Select the most appropriate option to fill in the blank.

One has to be persistent in studies if he/she wants to get his/her dream job. Success will remain unattainable if one studies
ans $\times 1$. root and branch
2. the three R's
3. in ups and downs
4. by fits and starts
Q. 13 Select the option that can be used as a one-word substitute for the given group of words.
A room where dead bodies are kept until burial
Ans
X 1. Sanatorium
X 2. Museum
3. Mortuary
4. Safari
Q. 14 Select the option that expresses the given sentence in active voice.

The important points were narrated in the class by the teacher.
Ans
X 1. The teacher was narrating important points in the class.
X 2. The teacher had narrated the important points in the class.
3. The teacher narrated the important points in the class.
4. In the class, the important points were narrated.
Q. 15 Select the most appropriate option to fill in the blank.

She became frustrated with her poor health and began to lose $\qquad$ of her recovery.
Ans
X 1. weight
$\times 2$ idea
X 3. money
4. hope
Q. 16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She has / a habit of / spending against/ her means.
Ans
$X$ 1. her means
$\times 2$. She has
3. spending against

X 4. a habit of
Q. 17 Select the option that can be used as a one-word substitute for the given group of words.

The action of damaging the good reputation of someone
Ans
$\times 1$. Delegate
2. Degeneration
3. Defamation

X 4. Defection
Q. 18 Rearrange the parts of the sentence in correct order. In December 2018
P. caused a landslide that
Q. an eruption of the volcano Anak Krakatau
R. triggered a tsunami in the Sunda Strait (Indonesia)
S. and killed more than 400 people

Ans
X 1. SQPR
X 2. RPQS
3. QPRS

X 4.PRQS
Q. 19 Select the most appropriate ANTONYM of the given word.

Loyal
Ans
X 1. Ardent
2. Fickle
3. Stupid
4. Tragic
Q. 20 Select the most appropriate ANTONYM of the underlined word.

The dacoits ravaged the bungalow in the absence of its owner.
Ans
X 1. Exploded
X 2. Demolished
3. Restored
4. Sealed

## Comprehension:

In the given passage, some words have been left out. Read the passage carefully and select the most appropriate option to fill in each blank.

During the pandemic, remote working has kept the work going on across $\qquad$ (1) Almost every industry got shut down physically during the lockdowns but the work from home model tried to $\qquad$ (2) the effect of the lockdown when it came to jobs. In the future also, many businesses across the globe, including the information technology industry, are $\qquad$ (3) continuing with the hybrid model. Remote working has replaced geography as a major hiring (4), with 90 per cent of senior executives expected to work from home. As a result, 76 per cent of US organisations are more likely to $\qquad$ (5) out side the city or even state, according to a Talent Works poll of recruiting managers conducted across the US, quoted by an FE report.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

- 1. Sectors

X 2. Fields
$\chi 3$. Sections
4. Areas

## Comprehension:

In the given passage, some words have been left out. Read the passage carefully and select the most appropriate option to fill in each blank.

During the pandemic, remote working has kept the work going on across $\qquad$ (1) Almost every industry got shut down physically during the lockdowns but the work from home model tried to $\qquad$ (2) the effect of the lockdown when it came to jobs. In the future also, many businesses across the globe, including the information technology industry, are $\qquad$ (3) continuing with the hybrid model. Remote working has replaced geography as a major hiring (4), with 90 per cent of senior executives expected to work from home. As a result, $\overline{76 \text { per cent of US organisations are more likely to }}$ $\qquad$ (5) out side the city or even state, according to a Talent Works poll of recruiting managers conducted across the US, quoted by an FE report.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. Substitute
2. Reduce

X 3. Replenish
X 4. Substantiate

## Comprehension:

In the given passage, some words have been left out. Read the passage carefully and select the most appropriate option to fill in each blank.

During the pandemic, remote working has kept the work going on across $\qquad$ (1) Almost every industry got shut down physically during the lockdowns but the work from home model tried to $\qquad$ (2) the effect of the lockdown when it came to jobs. In the future also, many businesses across the globe, including the information technology industry, are $\qquad$ (3) continuing with the hybrid model. Remote working has replaced geography as a major hiring (4), with 90 per cent of senior executives expected to work from home. As a result, 76 per cent of US organisations are more likely to $\qquad$ (5) out side the city or even state, according to a Talent Works poll of recruiting managers conducted across the US, quoted by an FE report.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. Analysing
X 2. Examining
2. Considering

X 4. Observing

## Comprehension:

In the given passage, some words have been left out. Read the passage carefully and select the most appropriate option to fill in each blank.

During the pandemic, remote working has kept the work going on across $\qquad$ (1) Almost every industry got shut down physically during the lockdowns but the work from home model tried to $\qquad$ (2) the effect of the lockdown when it came to jobs. In the future also, many businesses across the globe, including the information technology industry, are $\qquad$ (3) continuing with the hybrid model. Remote working has replaced geography as a major hiring (4), with 90 per cent of senior executives expected to work from home. As a result, $\overline{76}$ per cent of US organisations are more likely to $\qquad$ (5) out side the city or even state, according to a Talent Works poll of recruiting managers conducted across the US, quoted by an FE report.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. Formula
X 2. Standard
X 3. Criteria

- 4. Criterion


## Comprehension:

In the given passage, some words have been left out. Read the passage carefully and select the most appropriate option to fill in each blank.

During the pandemic, remote working has kept the work going on across $\qquad$ (1) Almost every industry got shut down physically during the lockdowns but the work from home model tried to $\qquad$ (2) the effect of the lockdown when it came to jobs. In the future also, many businesses across the globe, including the information technology industry, are $\qquad$ (3) continuing with the hybrid model. Remote working has replaced geography as a major hiring (4), with 90 per cent of senior executives expected to work from home. As a result, 76 per cent of US organisations are more likely to $\qquad$ (5) out side the city or even state, according to a Talent Works poll of recruiting managers conducted across the US, quoted by an FE report.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. Implement
X 2. Deploy
X 3. Execute
4. Employ

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone Chikalthana |
| Exam Date | 08/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Which two numbers and two signs should be interchanged to make the given equation correct?
$\mathbf{5 + 4 4 - 8 \times 2 5 = 2 0 3}$
Ans
X 1.8,5 and -, +
2. 8, 44 and -, +
3. 8, 5 and - , $\times$

X4.8, 44 and,$- \times$
Q. 2 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(60,5,6)$
$(48,8,3)$
Ans
$\times 1 .(17,3,4)$
X 2. $(25,4,6)$

- 3. $(24,4,3)$

X $4 .(25,4,3)$
Q. 3 A \& $B$ means ' $A$ is the son of $B$ '
$A$ \# B means ' $A$ is the sister of $B$ '
$A @ B$ means ' $A$ is the brother of $B$ '
$A$ \% $B$ means ' $A$ is the father of $B$ '
$A-B$ means ' $A$ is the daughter of $B$ '
$A$ * $B$ means ' $A$ is the wife of $B$ '
If C \# D @ $E \% Z \& L \# M-N$ * $P$, then how is $Z$ related to $N$ ?
Ans
X 1. Son
X 2. Grandfather
X 3. Father
4. Grandson
Q. 4 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(144, 9, 3)
$(225,7,8)$
Ans
X 1. $(168,5,8)$
2. $(64,5,3)$

X 3. $(81,6,2)$
$\times 4 .(120,7,4)$
Q. 5 Select the figure that will come next in the following figure series.


Ans

Q. 6 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans
$\times 1$.

$\times 2$.

$\times 3$.

$\checkmark 4$.

L
Q. 7 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the
statements.
Statements:
All pens are plates.
All plates are trays.
Some trays are boxes.
Conclusions:
I. Some boxes are plates.
II. Some trays are pens.
III. Some boxes are pens.
IV. No tray is a plate.

Ans

1. Only conclusion II follows
2. Only conclusion I follows
3. Only conclusion III follows
4. Only conclusion IV follows
Q. 8 In the following question, select the missing number from the given series.

69, 70, 73, 78, 85, ?
Ans

1. 94
$\times 2.90$
X 3.85
$\times 4.76$
Q. 9 In a certain code language, 'CAP' is coded as '262413' and 'LOG' is coded as '171022'. How will 'BED' be coded in that language?
Ans
X 1.11825
X 2.12027

- 3.12025
$\times 4.12225$
Q. 10 If $A \times B$ means that $A$ is the father of $B, A+B$ means that $A$ is the mother of $B, A \div B$ means that $A$ is the brother of $B$ then which of the following expression shows that $A$ is the paternal uncle of $C$ ?

Ans
$X 1 . A \div C+B$
2. $A \div B+C$
3. $A+B \div C$
4. $A \div B \times C$
Q. 11 Select the cube that can be formed by folding the given sheet along the lines.



A


B


C


D

Ans

1. Only C and D

X 2. Only A and B
X 3. Only A and C
4. Only A, B and C
Q. 12 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. BYI
X 2. KPR
2. QLA

X 4. DWK
Q. 13 Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.


Ans

$\times 2$.

$\times 3$.

$\times 4$.

Q. 14 In a certain code language, 'BRIGHT' is written as 'TTKIJB' and 'ROAST' is written as 'TQCUR'. How will 'AROUND' be written in that language?

Ans

1. DTQWPA
2. RTQWPF
3. TTQWRD
4. CTQWPF
Q. 15 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Commence : Begin :: Doctrine : ?
Ans

1. Belief
2. Conduct
3. Duty
4. Study
Q. 16 By interchanging the given two signs which of the following equation will be not correct?

- and $x$

Ans
X1. $20 \times 12+6-16 \div 8=20$
X2. $16 \times 91 \div 13+5-3=24$
X $3.20 \times 8-4 \div 2+3=7$

- $4.4 \times 5-36 \div 6+10=10$
Q. 17 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$\mathbf{6 8 6}-\mathbf{1 4} \times \mathbf{4 9}+\mathbf{4 0 0} \div \mathbf{5}=596$
Ans
1.5 and $49, \div$ and -

2. 686 and $5,+$ and -
3. 14 and $49, \times$ and -
4. 14 and $5,+$ and $\times$
Q. 18 After arranging the given words according to dictionary order, which word will come at 'Fifth' position?
5. Devotional
6. Devolution
7. Devotement
8. Devocalize
9. Devoutness

Ans $\times 1$. Devotement
2. Devocalize
3. Devoutness
4. Devotional
Q. 19 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(34,23,12)$
(71, 37, 3)
Ans

1. $(75,50,20)$
2. $(20,65,50)$
3. $(19,55,91)$
4. $(14,12,16)$
Q. 20 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).


Ans

$\times 2$

$\times 3$.

$\times 4$

Q. 21 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X1.9-80
2.7-52

X 3.5-24
X4.11-120
Q. 22 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
TMTQ, WGCE, ZALS, CUUG, ?
Ans
X 1. FMRS
2. FODU

X 3.FORQ
X 4. FRMQ
Q. 23 Which of the following letters will replace the question mark (?) and complete the following letter series?
Q, O, M, K, I, G, ?
Ans
X1.D
X2.F
$\times 3$.
4.E
Q. 24 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Road: Concrete
Ans
X 1. Water: Glass
2. Jewellery: Bangle
3. Doctor: Medicine
4. Wall : Brick
Q. 25 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some $Z$ are $F$.
II. All G are Z.

Conclusion:
I. No $F$ is $G$.
II. Some G are not F.
III. No $F$ is $Z$.

Ans $\quad$ 1. Only conclusion II follows
X 2. Both conclusions II and III follows
X 3. Both conclusions I and II follows
4. Neither conclusion follows

Section: General Awareness
Q. 1 Match Column-A with Column-B

| Column-A | Column-B |
| :--- | :--- |
| i. G1 | a. Cell synthesises a complete copy of the DNA |
| ii. S | b. First gap phase, the cell grows physically larger |
| iii. G2 | c. Cell begins to reorganise its contents in preparation for mitosis |
| iv. M | d. Cell divides its copied DNA and cytoplasm to make two new cells |

Ans

1. i-b, ii-a, iii-c, iv-d
2. i-c, ii-a, iii-b, iv-d
3. i-a, ii-b, iii-c, iv-d

X 4. i-b, ii-a, iii-d, iv-c
Q. 2 If $Q=$ net charge, $t=$ time, then which of the following equations is correct?

Ans
$\times 1 . t=Q \times I$
จ2. $I=\frac{Q}{t}$
X 3. $Q=\frac{I}{t}$
X4. $I=Q \times t$
Q. 3 With which instrument do the sisters Lalita and Nandini identify?

Ans
X 1. Mandolin
2. Violin

X 3. Sarod
4. Flute
Q. 4 Guru Nileshwar Mukharjee is the exponent of which of the following Indian classical dance forms?

Ans
X 1. Sattriya
2. Manipuri
3. Odissi
4. Kathak
Q. 5 Which of the following festivals is organised by the Government of Karnataka, usually in January, to celebrate the grandeur of temples at a UNESCO heritage site?

Ans
X 1. Kambala Festival
2. Pattadakal Dance Festival
3. Karaga Festival
4. Hoysala Festival
Q. 6 In which Five-Year Plan, was the Mahalanobis Model started?

Ans

1. Second
2. Fourth
3. Third
4. First
Q. 7 The Basketball centre line is part of the:

Ans
X 1. front court
2. back court
3. restricted area
4. middle court
Q. 8 From the point of view of commerce, the busiest ocean of the world is $\qquad$ .
Ans
X 1. Pacific ocean
X 2. Indian ocean
X 3. Arctic ocean
4. Atlantic ocean
Q. 9 On which river, the first night navigation mobile application in rivers in India was launched for ferries?

Ans

1. Brahmaputra
2. Ganga
3. Kaveri
4. Son
Q. 10 Minhaj-i-Siraj was a chronicler during the rule of $\qquad$ _.
Ans
5. Sultan Iltutmish
6. Qutbuddin Aybak
7. Ghiyasuddin Balban
8. Alauddin Khalji
Q. 11 Joint Liability Group is usually an informal group that consists of $\qquad$ individuals who seek loans against mutual guarantee.
Ans
$\times 1.1-3$
X 2. 15-20
9. 4-10
10. 20-30
Q. 12 Which of the following can alter the boundary of a state or change its name?

Ans
X 1. State government
2. Parliament
3. Supreme Court
4. High Court
Q. 13 Ganga Sagar Mela is conducted at the mouth of the river Hooghly in $\qquad$ .
Ans

1. West Bengal

X 2. Bihar
X 3. Goa
4. Andhra Pradesh
Q. 14 $\qquad$ is a change of position.

Ans
X 1. Speed
$\times 2$. Velocity
3. Motion

X 4. Distance
Q. 15 FIFA U-19 Women's World Cup 2022 will be organised by $\qquad$ -
Ans $\times 1$. England
X 2. Brazil
3. the US
4. India
Q. 16 "All India Muslim League" was formed at Dacca in $\qquad$ .
Ans
X 1.1900
$\times 2.1904$
X 3.1902
4. 1906
Q. 17 Chittaranjan Das was the political guru of which of the following personalities?

Ans

1. Subhash Chandra Bose
2. Mahatama Gandhi
3. Jawaharlal Nehru
4. Bhagat Singh
Q. 18 Which of the following pairs of 'Dynasty - Ruled region' is correctly matched? I.

Shakas - North west and north India II. Vakatakas - Central and western India
Ans
X 1. Neither I nor II
2. Only I
3. Only II
4. Both I and II
Q. 19 Who was appointed as India's chief G20 coordinator in April 2022?

Ans
X 1. Jasleen Kohli
2. Harsh V Shringla
3. C Muhammed Faizi
4. Abhishek Singh
Q. 20 The Purple revolution was launched by the Union Ministry of Science \& Technology in Jammu and Kashmir. This revolution is related to cultivation of which crop?

Ans
X 1. Marigold
2. Kashmiri Rose
3. Lavender
4. Himalayan Indigo
Q. 21 The atomic number of lead is:

Ans
$\times 1.81$
2. 78
3. 82
4.79
Q. 22 Which of the following Articles of the Constitution of India deals with amendment in the Constitution?

Ans
X 1. Article 365
X 2. Article 360
3. Article 368
< 4. Article 355
Q.23 By which name is the historical road built by Sher Shah Suri known?

Ans

1. Grand trunk road

X 2. Express way
X 3. Highway
4. Cart road
Q. 24 The poverty ratio has declined to $\qquad$ in 2011-12 in rural India.

Ans
X 1.20 .9 percent
2. 30.9 percent
3. 25.9 percent
4. 35.9 percent
Q. 25 In a lake ecosystem, the primary consumers are $\qquad$ .
Ans

1. zooplankton
2. phytoplankton
3. bacteria
4. fishes

Section : Quantitative Aptitude
Q. 1 In $\triangle A B C$ and $\triangle P Q R, A B=P Q$ and $\angle B=\angle Q$. The two triangles are congruent by SAS criteria if:
Ans

1. $B C=Q R$
2. $A C=P R$
3. $A C=Q R$
4. $B C=P Q$
Q. 2 Anuradha invests her money in a firm where the principal amount becomes 3 times in 10 years. What is the yearly rate of simple interest offered by the firm?
Ans
-1.25\%
5. $20 \%$

X $3.22 \%$
4.18\%
Q. 3 Study the given graph and answer the question that follows.

The number of appeared candidates and passed candidates (in hundreds) in a test from six different institutions.


The number of candidates who passed from institutions $C$ and $D$ together is approximately what percentage (rounded off to the nearest integer) of the total number of candidates who appeared from institutions B and E together?

Ans
X 1. $100 \%$
2. $77 \%$

X 3. $95 \%$
X4. $90 \%$
Q. 4 Two trains are moving in the opposite direction at the speed of $48 \mathrm{~km} / \mathrm{hr}$ and $60 \mathrm{~km} / \mathrm{hr}$ respectively. The time taken by the slower train to cross a man sitting in the faster train is $\mathbf{1 2}$ seconds. What is the length of the slower train?
Ans $\times 1.480$ metres
2. 720 metres
3. 180 metres
4. 360 metres
Q. 5 A shopkeeper listed the marked price of a chair at a certain amount. If the shopkeeper declares a $15 \%$ discount and sold it at Rs.1,445, then what is the marked price?

Ans
X 1.Rs.1,750
2. Rs.1,800
3. Rs. 1,700
4. Rs.1,850
Q. 6 In a factory, Ajay and Vijay work on the same machine to cut diamonds but on alternate hour basis. Ajay works for the first hour and then Vijay works for the second hour and so on. Ajay can complete the work in 6 hours, while Vijay completes it in 16 hours if they work individually. In how much time can they complete the work if they are using the machine on alternate basis?
Ans

1. 8 h 30 min
2. 8 h
3.9 h
3. 9 h 30 min
Q. 7 In $\triangle A B C$ and $\triangle D E F, \angle A=55^{\circ}, A B=D E, A C=D F, \angle E=85^{\circ}$ and $\angle F=40^{\circ}$. By which property are $\triangle A B C$ and $\triangle D E F$ congruent?

Ans

1. SAS property
2. ASA property
3. RHS property
4. SSS property
Q. 8 John drives 250 km at $50 \mathrm{~km} / \mathrm{h}$ and then he drives 350 km at $70 \mathrm{~km} / \mathrm{h}$. Find his average speed for the whole journey in km/h.

Ans

1. $55 \mathrm{~km} / \mathrm{h}$
2. $60 \mathrm{~km} / \mathrm{h}$
3. $58 \mathrm{~km} / \mathrm{h}$
4. $65 \mathrm{~km} / \mathrm{h}$
Q. 9 If $y=1+\sqrt{3}+\sqrt{4}$, then the value of $2 y^{4}-8 y^{3}-6 y^{2}+28 y-84$ is:

Ans

1. $40 \sqrt{3}$
$\times 2.80 \sqrt{3}$
$\times$ 3. $20 \sqrt{3}$
$\times 4.60 \sqrt{3}$
Q. 10 If two circles do not touch or intersect each other and one does not lie inside the other, then find the number of common tangents.
Ans
$\times 1.5$
2. 4
$\times 3.2$
$\times 4.3$
Q. 11 A person having bought goods for Rs. 400 sells half of it at a gain of $5 \%$. At what gain percentage must he sell the remainder, so as to gain $25 \%$ on the whole?
Ans
X $1.30 \%$
X 2. $25 \%$
3. $20 \%$
4. $45 \%$
Q. 12 If $\cot A=\frac{12}{5}$, then the value of $\sin A=$ ?

Ans

1. $\frac{5}{13}$
2. $\frac{12}{13}$
3. $\frac{5}{12}$
4. $\frac{13}{12}$
Q. 13 What is the value of $\tan 6^{\circ} \times \tan 45^{\circ} \times \tan 84^{\circ}$ ?

Ans

1. 1

X 2. $\tan 6^{\circ} \times \tan 39^{\circ}$
$\times 3.3$
X4. $\tan 6^{\circ}+\tan 45^{\circ}+\tan 84^{\circ}$
Q. 14

The given bar diagram represents the number of persons who have taken an insurance policy on the $y$-axis, and the year of purchase of the insurance policy on the x -axis.


What is the approximate percentage of change in the number of persons who have taken the insurance policy in the year 2014 to that in the year 2011 (correct to one decimal place)?
Ans

1. $33.3 \%$
2. $26.4 \%$
$\times 3.35 .5 \%$
X4. $23.1 \%$
Q. 15 If $x=\frac{\sqrt{5}-\sqrt{4}}{\sqrt{5}+\sqrt{4}}$ and $y=\frac{\sqrt{5}+\sqrt{4}}{\sqrt{5}-\sqrt{4}}$ then the value of $\frac{x^{2}-x y+y^{2}}{x^{2}+x y+y^{2}}=$ ?

Ans
X 1. $\frac{361}{363}$
X 2. $\frac{341}{343}$
X 3. $\frac{384}{387}$
4. $\frac{321}{323}$
Q. 16 If $\sin \theta-\operatorname{Cos} \theta=\frac{4}{5}$, then find the value of $\sin \theta+\operatorname{Cos} \theta$.

Ans
$\times 1 \cdot \frac{5}{\sqrt{34}}$
$\times 2 . \frac{5}{\sqrt{24}}$
-3. $\frac{\sqrt{34}}{5}$
$\times 4 . \frac{\sqrt{24}}{5}$
Q. 17 An iron rod with diameter 4 cm and length 12 cm is drawn into a wire of length 12 m of uniform thickness. Determine the thickness of the wire.

Ans
$\times 1.0 .6 \mathrm{~cm}$
2. 0.7 cm
3. 0.3 cm
4. 0.4 cm
Q. 18 The fourth proportional to 16 and 26 and 32 is:

Ans
$\times 1.16$
2. 52
3. 54
4. 24
Q. 19 If $\tan (\alpha+\beta)=\sqrt{ } 3$, $\tan (\alpha-\beta)=1$ where $(\alpha+\beta)$ and $(\alpha-\beta)$ are acute angles, then what is tan ( $6 \alpha$ )?
Ans 1.-1
$\times 2.0$

- 3.1
(4. $\sqrt{2-1}$
Q. 20 If $\frac{2 p}{p^{2}-5 p+1}=\frac{1}{10}, p \neq 0$, then the value of $\left(p+\frac{1}{p}\right)$ is:

Ans
X 1.10

- 2.25
$\times 3.1$
$\times 4.15$
Q. 21 In a division sum, the divisor is 10 times the quotient and four times the remainder. What is the dividend if the remainder is 45 ?
Ans
$\times 1.4123$

2. 3285
$\times 3.2895$
4.5412
Q. 22 The table given below shows the number of players participating in two games in six different schools?

|  | Games |  |
| :---: | :---: | :---: |
| Schools | L | M |
| D | 82 | 136 |
| E | 68 | 92 |
| F | 56 | 72 |
| G | 78 | 94 |
| H | 44 | 86 |
| I | 100 | 108 |

Number of players participating in game $L$ from school $D$ and $E$ is how much percent less than the number of players participating in game $\mathbf{M}$ from school H and I ?

Ans

1. 22.68 percent
2. 32.52 percent
3. 26.22 percent
4. 43.53 percent
Q. 23 The HCF of 222, 642 and 1062 is $\qquad$ -
Ans
) 1.6
-2.8
3.4
5. 2
Q. 24 The table given below shows the cost price and profit percentage of 5 articles.

| Article | Cost price | Profit |
| :---: | :---: | :---: |
| P | 450 | $90 \%$ |
| Q | 250 | $100 \%$ |
| R | 600 | $60 \%$ |
| S | 730 | $70 \%$ |
| T | 400 | $80 \%$ |

Total selling of article $P$ and $Q$ is what percent of total selling price of article $R, S$ and T?
Ans $\mathbf{X 1 . 3 6 . 2 6}$ percent
X 2. 49.27 percent
3. 35.87 percent
4. 46.38 percent
Q.25 A and B invested their money in a business in the ratio of $9: 5$. If $10 \%$ of the total profit goes for charity and A's share is Rs.29,840, what is the total profit (in Rs., to the nearest integer)?
Ans
X 1.Rs.51,745
X 2. Rs.55,715
X 3.Rs.57,545
4. Rs.51,575

## Section : English Comprehension

Q. 1 Select the most appropriate ANTONYM of the given word.

Vigilant
Ans
X 1. Stagnant
$X$ 2. Dubious
X 3. Robust
4. Negligent
Q. 2 Select the correct indirect form of the given sentence.

The professor said, "I want you to pursue your dreams" .
Ans
X 1. The professor said that I want you to pursue your dreams.
2. The professor said that he wanted me to pursue my dreams.

X 3. The professor says that he wants me to pursue my dreams.
X 4. The professor told me that I wanted you to pursue your dreams.
Q. 3 Select the most appropriate alternative to replace the underlined segment in the given sentence.

They met yesterday, haven't they?
Ans
X 1. don't they?
$\times 2$ isn't it?
3. didn't they?
4. did they?
Q. 4 Select the most appropriate synonym of the underlined word.

My father took a moment to ponder before signing the deeds of our ancestral home.
Ans
X 1. Hesitate
2. Contemplate

X 3. Sigh
X 4. Brief
Q. 5 Select the most appropriate meaning of the underlined idiom in the given sentence.

I bought some extra copies from the stationery shop. These may come in handy during exams.
Ans

1. Be useful
2. Cause trouble
3. Be sold
4. Bring luck
Q. 6 Select the correct passive form of the given sentence. She has learned many lessons in this camp.
Ans
X 1. Many lessons has been learned by her in this camp.
5. Many lessons are being learned by her in this camp.
6. Many lessons have been learned by her in this camp.
7. Many lessons were learned by her in this camp.
Q. 7 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

No sooner did this idea enter his head, than it carried conviction with it.
Ans
X 1. No sooner does this idea enter
2. No substitution

X 3. No sooner do his idea enter
4. No sooner has his idea enter
Q. 8 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Holi is a festival of revelry and camaraderie which is celebrated between the country.
Ans
X 1. No substitution
2. celebrated upon the country
3. celebrated at the country
4. celebrated across the country
Q. 9 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

The article that she wrote / for the last week's Sunday Supplement / fairly criticises / the abuse of mobile phones.
Ans
$\times 1$. The article that she wrote
2. for the last week's Sunday Supplement
3. the abuses of mobile phones.
4. fairly criticises
Q. 10 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
More than 200 eminent Indian Americans attended the reception at the East Room, a venue which has $\qquad$ some of the landmark events related to the India-U. S. relationship.
Ans

1. witnessed
2. surpassed
3. rebuffed
4. grounded
Q. 11 Select the INCORRECTLY spelt word in the following sentence.

Kamal's repetative mistakes and slip of tongue often create embarrassing moments for him.
Ans
X 1. embarrassing
2. slip
3. moments
4. repetative
Q. 12 Select the most appropriate meaning of the given idiom.

Play it by ear
Ans

1. To do something without special preparation
2. To plan
3. To listen carefully
4. To improve
Q. 13 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

Mother said that / it was quite all right / for her to get upset / for scoring less.
Ans

1. Mother said that
2. it was quite all right
3. for scoring less.
4. for her to get upset
Q. 14 Select the most appropriate ANTONYM of the underlined word.

Evolutionary psychology is a recently advanced field of study, which has grown exponentially with interest since the 1980s.

Ans

1. Rudimentary
2. Lackadaisical
3. Operative
4. Presumptuous
Q. 15 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Many companies displaced paying income tax last year.
Ans
X 1. hedged to paying
X 2. circumvent to paying
$\times$ 3. hedged in paying
4. evaded paying
Q. 16 Select the most appropriate option to fill in the blank.

One has to $\qquad$ the risks associated with global warming.
Ans
X 1. cook in mind
2. bear in mind
$\times$ 3. take in mind
4. break in mind
Q. 17 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. Despite that my guide Raj Lama sent me hiking up yet another trail to try to get a better view.
Q. I was not impressed, and I let him know.
R. I was on the Chele La mountain pass in west Bhutan.

S . The weather was ominous and it was raining too.
Ans $\times 1 . \mathrm{QPRS}$
< 2. SRPQ
3. SQPR
4. RSPQ
Q. 18 Select the correct passive form of the given sentence.

The snow-storm might have delayed Mira.
Ans

1. Mira might have been delayed by the snow-storm.
2. Mira may be delayed by the snow-storm.
3. Mira might be delayed by the snow-storm.
4. Mira may have been delayed by the snow-storm.
Q. 19 Select the most appropriate ANTONYM of the given word.

Anxiety
Ans
X 1. Discomfort
2. Relief

X 3. Agitation
$\times 4$. Stress
Q. 20 Choose the incorrectly spelt word.

Ans
< 1. Streamlining
X 2. Construction
X 3. Barbaric
4. Evolutoin

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Culture can be a beautiful thing. There are many aspects that make up one's culture. Whether it may be the clothing, language, religion, food, traditions or even music, all aspects play a
(1) $\qquad$ role in making up a person's culture. I think culture is so important because it does not affect only one person; it affects the (2) $\qquad$ and also affects the other people around it. I am happy to know my culture and to know where my family (3) $\qquad$ from. It gives me the sense of being whole, and at the same time makes me feel (4)___ and different from other people. Different cultures and different people make our country the beautiful melting pot we are (5) $\qquad$ to call it.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. calm
X 2. busy
3. huge
4. clumsy

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Culture can be a beautiful thing. There are many aspects that make up one's culture. Whether it may be the clothing, language, religion, food, traditions or even music, all aspects play a (1) $\qquad$ role in making up a person's culture. I think culture is so important because it does not affect only one person; it affects the (2) $\qquad$ and also affects the other people around it. I am happy to know my culture and to know where my family (3) $\qquad$ from. It gives me the sense of being whole, and at the same time makes me feel (4) and different from other people. Different cultures and different people make our country the beautiful melting pot we are (5) $\qquad$ to call it.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

1. country
2. climate
3. course
4. career

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Culture can be a beautiful thing. There are many aspects that make up one's culture. Whether it may be the clothing, language, religion, food, traditions or even music, all aspects play a (1) $\qquad$ role in making up a person's culture. I think culture is so important because it does not affect only one person; it affects the (2) $\qquad$ and also affects the other people around it. I am happy to know my culture and to know where my family (3) $\qquad$ from. It gives me the sense of being whole, and at the same time makes me feel (4)____ and different from other people. Different cultures and different people make our country the beautiful melting pot we are (5) $\qquad$ to call it.

SubQuestion No: 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. drawn
2. originated

X 3. imagined
X 4. managed

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Culture can be a beautiful thing. There are many aspects that make up one's culture. Whether it may be the clothing, language, religion, food, traditions or even music, all aspects play a (1) $\qquad$ role in making up a person's culture. I think culture is so important because it does not affect only one person; it affects the (2) $\qquad$ and also affects the other people around it. I am happy to know my culture and to know where my family (3) $\qquad$ from. It gives me the sense of being whole, and at the same time makes me feel (4) and different from other people. Different cultures and different people make our country the beautiful melting pot we are (5) $\qquad$ to call it.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. careful
X 2. evil
3. original

X 4. helpless

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Culture can be a beautiful thing. There are many aspects that make up one's culture. Whether it may be the clothing, language, religion, food, traditions or even music, all aspects play a (1) role in making up a person's culture. I think culture is so important because it does not affect only one person; it affects the (2) $\qquad$ and also affects the other people around it. I am happy to know my culture and to know where my family (3) $\qquad$ from. It gives me the sense of being whole, and at the same time makes me feel (4)____ and different from other people. Different cultures and different people make our country the beautiful melting pot we are (5) $\qquad$ to call it.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
$X$ 1. thoughtful
X 2. grumpy
X 3. innocent
4. proud

Combined Graduate Level Examination Tier I 2022

| Roll Number | Www.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WwW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Albert Road |
| Exam Date | 09/12/2022 |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
7:330:: ? : 203 :: 9 : 716
Ans
$\times 1.14$
$\times 2.16$

- 3.6
$\times 4.4$
Q. $2 A+B$ means ' $A$ is the father of $B$ ' $A$ - $B$ means ' $A$ is the mother of $B$ '
$A \% B$ means ' $A$ is the brother of $B$ '
$A \& B$ means ' $A$ is the son of $B$ '
If $P-Q \% R \& S+T$, then how is $P$ related to $T$ ?
Ans

1. Mother-in-law
2. Sister
3. Mother
4. Daughter
Q. 3 By Interchanging the given two numbers which of the following equation will be correct?
8 and 2
Ans
$\times 1.7 \div 2-8 \times 4+1=0$
X2. $2 \times 4-8+5 \div 1=50$

- $3.8 \times 4+6-2 \div 1=6$

X $4.8 \times 4-9 \div 3+2=35$
Q. 4 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?
$18+(12 \times 6)+(63 \div 7) \times 4+(27)^{\frac{1}{3}}-11=112$
Ans
$\times 1.18$ and 11
$\times 2.12$ and 4

- 3.6 and 4

X 4.18 and 12
Q. 5 Which of the following letter clusters will replace the question mark (?) and complete the following letter cluster series?
OG, RL, XQ, GV, ?
Ans

1. SA
2. RZ
3. SB
4. RA
Q. 6 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1- History
2- Historian
3-Hobnail
4- Historical
5- Hobnob
Ans
1.4, 1, 2, 5, 3
5. $2,4,1,3,5$
6. $2,1,4,5,3$
7. $1,2,4,3,5$
Q. 7 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Milk : Litre :: Sugar : ?
Ans
X 1. Hectare
X 2. Kilometer
X 3. Metre
8. Kilogram
Q. 8 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All $R$ are $H$.
II. Some T are R.

Conclusion:
I. All H are R.
II. All T are H .
III. No $R$ is $T$.

Ans

1. Neither conclusion follows

X 2. Both conclusions I and II follows
Х 3. All conclusion follows
4. Only conclusion III follows
Q. 9 In a certain code language, 'KNIGHT' is written as 'PMRTSG' and 'FELLOW' is written as 'UVOOLD'. How will 'DECENT' be written in that language?
Ans
X 1.WXVVMG
2. WVXVMG

X 3. WVXMVG
X 4. WVXVGM
Q. 10 In a certain code language, 'FUND' is written as 'FOVH' and 'SEND' is written as 'FOFU'. How will 'GIFT' be written in that language?

Ans

1. HIGW
2. IKGV
3. VGJI
4. IIGV
Q. 11 If $A+B$ means that $A$ is the father of $B, A \div B$ means that $A$ is the mother of $B, A \times B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the sister of $P$ ?
Ans
$X 1 . P \times Q+R$
5. $P+R \times Q$
6. $P \times Q \div R$
7. $Q \times P \div R$
Q. 12 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related
to each other based on the number of letters/number of consonants/vowels in the
word)
Length : Metre
Ans
. Electric current : Ampere
X 2. Mass: Heavy
X 3. Temperature: Hot
X 4. Volume : Light
Q. 13 Select the option figure which is embedded in the given figure (rotation is NOT allowed).


Ans
$\times 1$.

$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 14 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
X 1. XYZ
2. LNM
$\times 3 . A B C$
4. IJK
Q. 15 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
$(56,6,34)$
(102, 27, 78)
Ans
X 1. $(79,51,103)$
2. $(76,34,72)$

X $3 .(63,23,55)$
X 4. $(52,22,38)$
Q. 16 By Interchanging the given two numbers which of the following equation will be correct?
5 and 9
Ans
X1. $9-5 \times 4+6 \div 3=30$
X2. $9 \times 3+5 \div 1-6=20$
X $3.7 \times 9+5-8 \div 4=40$

- $4.9 \times 4+5-8 \div 2=25$
Q. 17 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some apples are fruits.
All fruits are vegetables.
No vegetable is healthy.
Conclusions:
I - No apple is healthy.
II- No healthy is vegetable.
III- Some vegetables are apples.
Ans
X 1. Only conclusions I and II follow.
X 2. Only conclusions I and III follow.
X 3. All conclusions follow.
4. Only conclusions II and III follow.
Q. 18 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 4 . \square$
Q. 19 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation.
Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1.32-65
2. $12-25$
3. $28-56$
<4. $26-53$
Q. 20 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
27:713:: 32 : ? :: 35 : 1209
Ans $\times 1.1024$
2. 1100
3. 1105
4. 1008
Q. 21 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.

Gkr42h $\left.\right|_{N} ^{M}$
Ans

$\times 2 . \mathrm{HS} 4 \mathrm{r} \geqslant \mathrm{D}$
$x$ 3. 4 SAy> 9
-4. hSAy入D
Q. 22 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 1 '.


Figure 1

1. 2
$\times 2.6$
$\times 3.3$
<4. 4
Q. 23 Select the figure that will replace the question mark (?) in the following figure series.


Ans

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 24 Which of the following number will replace the question mark (?) in the given series? 137, 114, ?, 91, 183
Ans
$\times 1.145$
2. 160
$\times 3.125$
$\times 4.112$
Q.25 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
SMQ, WUZ, ACI, EKR, ?
Ans

1. ISA
2. IMR
3. NMR
4. QRT

Section: General Awareness
Q. 1 How many Lok Sabha constituencies are there in India?

Ans
X 1.553
$\times 2.523$

- 3.543

4. 533
Q. 2 In 1887, the Royal Society, London gave the Davy Medal for the 'discovery of the periodic law of chemical elements' to

Ans
X 1. AEB de Chancourtois
2. Dmitri Mendeleev
3. Lothar Meyer
4. John Alexander Newland
Q. 3 Name the committee formed for the Village and Small-scale Industries in $1955 ?$

Ans
X 1. Rangarajan Committee
X 2. Basel Committee
3. Karve Committee
4. Narasimhan Committee
Q. 4 In November 2022, technology Transfer Scheme is implemented by which of these states?
Ans
X 1. Uttar Pradesh
X 2. Andhra Pradesh
X 3. Maharashtra
4. Kerala
Q. 5 Who among the following performed a ritual called 'hiranya-garbha'?

Ans

1. Dantidurga

X 2. Govinda I
X 3. Dhruva Dharavarsha
X 4. Krishna I
Q. 6 Which of the following Acts of the British Parliament stated that a member of the British Cabinet was appointed Secretary of State for India?
Ans
X 1. Indian Council Act of 1861
2. Government of India Act of 1858
3. Regulating Act, 1773
4. Charter Act of 1853
Q. 7 Against whom was the Battle of Plassey (1751) fought by the English Company led by Robert Clive?

Ans
X 1. Nizam of Awadh
2. Siraj Ud Daulah
3. Murshid Quli Khan
4. Shaan Nawab
Q. 8 In July 2022, the Supreme Court accepted the report of the Banthia Commission. In its report, the commission recommended that OBCs should be given up to reservation in local bodies.
Ans

1. 27 percent
2. 15 percent
3. 24 percent
4. 20 percent
Q. 9 The mode of transport to reach the most remote and distant areas which are most inaccessible is $\qquad$ _.

Ans
X 1. Waterways
2. Roadways
3. Railways
4. Airways
Q. 10 How many rights are mentioned under "Right to Equality"?

Ans
$\times 1.3$
$\times 2.6$

- 3.5
$\times 4.4$
Q. 11 Which low-calorie sweetener has the chemical formula $\mathrm{C}_{14} \mathrm{H}_{18} \mathrm{~N}_{2} \mathrm{O}_{5}$ that is two hundred times sweeter than sugar?
Ans

1. Saccharin
2. Aspartame

X 3. Sucralose
4. Neotame
Q. 12 Techniques of making silk were first invented in China around $\qquad$ years ago.
Ans

1. 7000
2. 3000
3. 9000
4.5000
Q. 13 The first edition of the Common wealth Youth Games was organised in which of the following years?
Ans
X 1.2008
4. 2012

- 3.2000
$\times 4.2016$
Q. 14 The ceremony that marks the end of Republic Day celebrations is $\qquad$ .
Ans

1. the beating retreat ceremony
2. the fly-past by the Indian Air Force fighter aircraft
3. the 'At Home' ceremony at Rashtrapati Bhawan
4. the homage ceremony at National War Memorial
Q. 15 Which of the following pairs of countries hosted the FIVB Volleyball Men's World Championship in 2022?

Ans
X 1. Bulgaria and Slovenia
2. Italy and Bulgaria
3. Poland and Slovenia
4. Italy and Poland
Q. 16 Polar easterlies are which kind of winds?

Ans
X 1. Seasonal winds
2. Permanent winds
3. Sea storm
4. Local winds
Q. 17 $\qquad$ took over the charge of Director General of Employees' State Insurance Corporation in October 2022.
Ans
X 1. Ravi Mittal
2. Suchitra K Ella
3. Ajay Bhushan Pandey
4. Rajendra Kumar
Q. 18 Identify the longest part of bacterial flagellum.

Ans
X 1. Basal body
X 2. Hook
X 3. Tail
4. Filament
Q. 19 Borgeet, a musical composition, is used in which of the following classical dances of India?

Ans
X 1. Manipuri
人 2. Kathak
3. Sattriya
4. Bharatanatyam
Q. 20 Which of the following cells line the spongocoels and canals in members of the phylum Porifera?

Ans
X 1. Somatic cells
2. Collar cells
3. White cells
4. Sex cells
Q. 21 Chilika lake is situated in which of the following states?

Ans
X 1. Karnataka
2. Kerala
3. Odisha
4. Andhra Pradesh
Q. 22 Which of the following sites do "Not" have coal mines?

Ans

- 1. Sonipat

X 2. Neyveli
X 3. Korba
X 4. Singareni
Q. 23 Hema Malini, a well-known Bharatnatyam dancer and Bollywood actor, received which of the following honours of Indian civilians given by the Government of India in 2000?
Ans
X 1. Bharat Ratna
2. Padma Shri

X 3. Padma Bhushan
4. Padma Vibhushan
Q. 24 Which of the following dance forms is performed to Carnatic music?

Ans
X 1. Kathak
2. Kuchipudi

X 3. Odissi
4. Sattriya
Q. 25 If marginal propensity to consume is denoted by $c$, then government expenditure multiplier can be expressed as $\qquad$ —.
Ans
$\times 1$. c
2. $1 / 1-\mathrm{c}$
3. $1 / \mathrm{c}$
4. -1/c

Section : Quantitative Aptitude
Q. 1 Monty paid a simple interest of ₹ 480 on a particular sum after 2 years. The rate was $8 \%$ per annum. Find the sum.
Ans
X 1. ₹2,200
X 2. ₹2,000

- ₹ ₹ 3,000

X4. ₹2,500
Q. 2 The curved surface area of a right circular cone of base radius 21 cm is $594 \mathrm{sq} . \mathrm{cm}$. What is the slant height of the cone?

Ans
$\times 1.15 \mathrm{~cm}$
X 2.11 cm
2. 3 cm
$\times 4.6 \mathrm{~cm}$
Q. 3 If it is given that for two right angled triangles $A B C$ and $D F E, \angle A=25^{\circ}, \angle E=25^{\circ}, \angle B=$ $\angle F=90^{\circ}$ and $A C=E D$, then which one of the following is TRUE?

Ans
X1. $\triangle A B C \cong \triangle F E D$
2. $\triangle \mathrm{ABC} \cong \triangle \mathrm{DFE}$
3. $\triangle \mathrm{ABC} \cong \triangle \mathrm{EFD}$
4. $\triangle \mathrm{ABC} \cong \triangle \mathrm{DEF}$
Q. 4

## The HCF of $\frac{1}{2}, \frac{3}{4}, \frac{5}{6}$ and $\frac{7}{8}$ is:

Ans
$\times 1 \cdot \frac{105}{2}$
2. $\frac{1}{24}$

- 3. $\frac{7}{24}$

X4. $\frac{1}{48}$
Q. 5 The following pie-chart shows the data regarding the donors of $\mathrm{A}, \mathrm{B}, \mathrm{O}$ and AB blood groups.


The ratio of the number of donors of blood group ' O ' to the average of the number of donors of blood groups ' A ' and ' AB ' together is:

Ans
X1.2:3
2.1:1
$\times 3.2: 1$
$\times 4.1: 2$
Q. 6 Abha and Anuj working together completed a job in $\frac{40}{9}$ days. If Abha had worked twice as efficiently as she actually did and Anuj had worked $\frac{1}{3}$ of his actual efficiency, then the work would have been completed in $\frac{60}{17}$ days. Find the time Abha would take to complete the work alone.

Ans

1. 10 days
2. 8 days

X 3.12 days
X 4.6 days
Q. 7

If $\mathrm{p}-\frac{1}{\mathrm{p}}=6$, then what is the value of $\mathrm{p}^{4}+\frac{1}{\mathrm{p}^{4}}$ ?
Ans
X 1.1562
X 2.1432

- 3.1442

X 4.1444
Q. 8 In a 7-digit number 89476*2, what is the smallest possible value of * such that the number is divisible by 8 ?
Ans
$\times 1.2$
$\times 2.1$
$\times 3.4$

- 4.3
Q. 9 A megastore is offering 20\% discount on all grocery items. Sakshi bought one grocery item marked at Rs.400. What is its cost price if the store earned a profit of $\mathbf{2 5 \%}$ after giving the discount?
Ans

1. Rs. 256
2. Rs. 280
3. Rs. 380
4. Rs. 320
Q. 10 Simplify $x^{4}-15 x^{3}+15 x^{2}-15 x+40$; given $x=14$.

Ans
X 1.0
$\times 2.40$
$\times 3.14$

- 4.26
Q. 11 If $\triangle \mathrm{ABC} \cong \triangle \mathrm{PQR}, \mathrm{BC}=6 \mathrm{~cm}$, and $\angle \mathrm{A}=75^{\circ}$, then which one of the following is true?

Ans
X1. $\mathrm{QR}=6 \mathrm{~cm}, \angle \mathrm{R}=75^{\circ}$
X2. $\mathrm{QR}=6 \mathrm{~cm}, \angle \mathrm{Q}=75^{\circ}$
-3. $\mathrm{QR}=6 \mathrm{~cm}, \angle \mathrm{P}=75^{\circ}$
X4. $\mathrm{PR}=6 \mathrm{~cm}, \angle \mathrm{P}=75^{\circ}$
Q. 12 A thief running at speed of ' $x$ ' $\mathrm{km} / \mathrm{h}$ is chased by a policeman running at a speed of 10 $\mathrm{km} / \mathrm{h}$. If the thief is ahead by 100 metres, the policeman catches the thief after 3 minutes. At what speed is the thief running (' $x$ ' being the unknown speed)?
Ans
X $1.4 \mathrm{~km} / \mathrm{h}$
2. $8 \mathrm{~km} / \mathrm{h}$

X $3.10 \mathrm{~km} / \mathrm{h}$
$4.6 \mathrm{~km} / \mathrm{h}$
Q. 13 A person covers a certain distance by bus at $45 \mathrm{~km} / \mathrm{h}$ and immediately returns to the starting point by car at a speed of $80 \mathrm{~km} / \mathrm{h}$. What is his average speed during the whole journey?
Ans
$1.57 .6 \mathrm{~km} / \mathrm{h}$
2. $63.2 \mathrm{~km} / \mathrm{h}$
3. $73.5 \mathrm{~km} / \mathrm{h}$
$4.45 .5 \mathrm{~km} / \mathrm{h}$
Q. 14 The table given below shows the cost of two fruits in five different shops.

|  | Fruits |  |
| :---: | :---: | :---: |
| Shops | A | B |
| P | 75 | 140 |
| Q | 120 | 90 |
| R | 50 | 35 |
| S | 70 | 85 |
| T | 95 | 96 |

What is the difference between the cost of fruits $A$ and $B$ in all five shops together?
Ans
$\times 1.24$
2. 36
3. 20
4.48
Q. 15 If $\sin \theta=\frac{8}{17}$ where $\theta$ is an acute angle, then what is the value of $\tan \theta+\cot \theta$ ?

Ans
X 1. $\frac{217}{110}$
2. $\frac{281}{190}$
3. $\frac{289}{120}$
4. $\frac{512}{321}$
Q. 16 In a certain shop, the profit is $130 \%$ of the cost. If the cost increases by $\mathbf{2 8 \%}$ and the selling price remains constant, then what is the profit percentage to the nearest whole number?

Ans
1.75\%
2. $60 \%$
3. $59 \%$
4. $80 \%$
Q. 17 The table given below shows the number of boys and girls in a school in 6 years.

| Years | Boys | Girls |
| :---: | :---: | :---: |
| A | 80 | 70 |
| B | 60 | 50 |
| C | 120 | 100 |
| D | 100 | 140 |
| E | 160 | 40 |
| F | 90 | 80 |

What is the ratio of number of boys in year $A$ and $C$ together to the number of girls in year $E$ and $F$ together?
Ans
$\times 1.7: 2$
$\times 2.7: 3$
2.5:3
$\times 4.5: 2$
Q. 18

If $\sin ^{2} \theta \cos ^{2} \theta=\frac{2}{9}$, then what will be the value of $\operatorname{cosec}^{2} \theta+\sec ^{2} \theta$ ?
Ans
X $1.7 / 2$
X 2.5/2

- 3.9/2

X4. $9 \sqrt{2}$
Q. 19 The side of an equilateral triangle is 36 cm . What is the radius of the circle circumscribing this equilateral triangle?

Ans
$\times 1.13 \sqrt{3} \mathrm{~cm}$
2. $10 \sqrt{3} \mathrm{~cm}$
3. $12 \sqrt{3} \mathrm{~cm}$
$\times 4.9 \sqrt{3} \mathrm{~cm}$
Q. 20 The value of $\frac{146 \times 146 \times 146-143 \times 143 \times 143}{146 \times 146+143 \times 143+146 \times 143}$ is:

Ans
$\times 1.0$

- 2.3
$\times 3.289$
4.1
Q. 21 If $2 \frac{\cos ^{2} x-\sec ^{2} x}{\tan ^{2} x}=a+b \cos 2 x$, then $a, b=$ ?

Ans

1. $\frac{-3}{2}, \frac{-1}{2}$
2. $\frac{3}{2}, \frac{1}{2}$
3. $-3,-1$
4.3,1
Q. 22 The pie chart given below shows the sales of 7 different companies. The total sales of all these 7 companies are 3600. The sale of a particular company is shown in terms of degree with respect to the total sales of all these 7 companies.


Which of the following statement is correct?
$I$. The ratio of average sale of company $P$ and $Q$ to the average sale of $T$ and $U$ is $9: 10$.
II. The difference between the total sale of company $R$ and $S$ and the sale of $V$ is 1050.

Ans
< 1. Neither I nor II
X 2. Only II
3. Only I

X 4. Both I and II
Q. 23 Three positive numbers are in the ratio of $4: 5: 7$, and the sum of their squares is 15,210 . Find the sum of the three numbers.
Ans
$\times 1.148$
$\times 2.156$
$\times 3.126$

- 4.208
Q. 24 The perpendicular distance between the centre of a circle and the longest chord of that circle is $\qquad$ -.
Ans
$\times 1.1$
- 2. 

$\times 3.2$
<4. $\pi$
Q. 25 During the first year, the strength of a school increased by $12 \%$, in the second year it decreased by $12 \%$ and in the third year it increased by 10\%. At the end of the third year its strength was nearly 10842. What was the strength at the beginning of the first year?
Ans
X1.8000
2. 10000
$\times 3.6500$
$\times 4.12000$

Section : English Comprehension
Q. 1 Select the option that expresses the given sentence in passive voice.

Mary was cooking the meal.
Ans $\quad \times 1$. The meal were being cooked by Mary.
2. The meal was already being cooked by Mary.
3. Mary was about to cook the meal.
4. The meal was being cooked by Mary.
Q. 2 Select the option that can be used as a one-word substitute for the given group of words.

Strong hostility
Ans
X 1. Animalistic
2. Anonymity
3. Comity
4. Animosity
Q. 3 Rearrange the parts of the sentence in correct order.

American alligators were
P. now this species is classified as least concern
Q. list in 1967, their population increased and
$R$. once threatened by extinction but
S. after being placed on the endangered species

Ans $\times 1$. SQPR
X 2. RPQS
2. RSQP

X4.PQSR
Q. 4 In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'.

The ameteur sculptor received an award at the international sculpting competition.
Ans
$X 1$. ameature
X 2. No error
2. amateur

X 4. ameateur
Q. 5 Select the INCORRECTLY spelt word.

Ans
X 1. Pollen
2. Mousy
3. Quasi
4. Quever
Q. 6 Select the most appropriate option that can substitute the underlined segment in the given sentence.

We have only just enough money to live on now, and if my husband loses his job, we'll really be up again it.
Ans
$X$ 1. be up gone it
2. be up across it
3. be up cross it
4. be up against it
Q. 7 Select the most appropriate synonym of the underlined word.

The foreign company is chary of investing in Africa.
Ans
$\times 1$. Keen
2. Fervent
3. Confident
4. Cautious
Q. 8 Select the most appropriate meaning of the underlined idiom.

The new intern is a greenhorn and thus his superiors take advantage of him.
Ans

1. Inexperienced
2. Jealous
3. Overenthusiastic
4. Sick
Q. 9 Select the most appropriate adverb to fill in the blank.

Nitha can assemble the students of her class $\qquad$ -.
Ans

1. perfect
2. distract
3. slow
4. quickly
Q. 10 Fill in the blank with the correct collocation.

Of course, we agree with that measure, it is $\qquad$ sensible.
Ans
X 1. slightly
2. hardly
3. partially
4. perfectly
Q. 11 Select the most appropriate synonym of the given word from the following sentence. Encountered
Many people have been experiencing the starting of heat wave and some of them have avoided going outside their homes.
Ans
$\times 1$. Outside
$\times$ 2. Starting
X 3. Avoided
4. Experiencing
Q. 12 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

The wedding gown / looked decently / despite being / studded wit jewels.
Ans
X 1 . The wedding gown
X 2. despite being
3. looked decently

X 4. studded with jewels.
Q. 13 Select the most appropriate ANTONYM of the underlined word.

The soldiers were irresolute and so, they won the war for the infantry and the country.
Ans
$X$ 1. harsh
X 2. variant
X 3. default
4. decisive
Q. 14 Select the most appropriate synonym of the given word.

Anger
Ans
X 1. Pleasure
2. Fury
$X$ 3. Comfort
X 4. Agony
Q. 15 Select the most appropriate option to complete the given sentence.

She raised a $\qquad$ when she saw her luggage missing.
Ans

1. hue and cry

X 2. spick and span
X 3. hand and foot
X 4. whip and spur
Q. 16 Select the correct direct form of the given sentence. The old man asked the boy where the postman was.
Ans
X 1. The old man says to the boy, "Where is the postman?"
2. The old man said to the boy, "Where has been the postman?"
3. The old man said to the boy, "Where is the postman?"
4. The old man said to the boy, "Where was the postman?"
Q. 17 Select the option that expresses the given sentence in passive voice.

Sanjay rolled the marble through a small plastic pipe.
Ans
X 1. A small plastic pipe was rolled through a marble by Sanjay.
2. The marble was rolled through a small plastic pipe by Sanjay.

X 3. The marble was rolled by Sanjay in a small plastic pipe.
4. The marble through a small plastic pipe was rolled by Sanjay.
Q. 18 Select the option that can be used as a one-word substitute for the given group of words.

Murder of an infant
Ans

1. Foeticide
2. Feticide
3. Sacrifice
4. Infanticide
Q. 19 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.If things get out of control, competition might become totally toxic.
B.Competition is the act of participating in a contest and the strive to finish first.
C.Competition enables those who effectively deal well enough to grow and realise their skills and talents.
D.The essence of competition is placing oneself against one's contemporaries and frequently against oneself.
Ans
X 1. CABD
5. BDCA

X 3. DCAB
4. ADBC
Q. 20 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Blind by a dust storm, they fell into disorder.
Ans
X 1. Have been blind
2. Blinded
3. Blinding
4. Being blind

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Allegiance to one's favourite team is something that sports fans 1 $\qquad$ over a period of time. They are so attached to their favourite teams that they could display 2 $\qquad$ emotions, not just during the course of the match, but much after the actual event is over. This phenomenon, 3 $\qquad$ common across the globe, is more seen in countries like Brazil, India, the US and even the UK, where the favourite sport may not be the same in each of these nations. In spite of this craze and hysteria, sport has 4 $\qquad$ a long way. It is accepted as one of the world's most 5 $\qquad$ pastimes ever.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. crave
X 2. infer
3. develop

X 4. defer

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Allegiance to one's favourite team is something that sports fans 1 $\qquad$ over a period of time. They are so attached to their favourite teams that they could display 2 $\qquad$ emotions, not just during the course of the match, but much after the actual event is over. This phenomenon, 3 $\qquad$ common across the globe, is more seen in countries like Brazil, India, the US and even the UK, where the favourite sport may not be the same in each of these nations. In spite of this craze and hysteria, sport has 4 $\qquad$ a long way. It is accepted as one of the world's most 5 $\qquad$ pastimes ever.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. hurried
2. varied
$X$ 3. dread
X4. concrete

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Allegiance to one's favourite team is something that sports fans 1 $\qquad$ over a period of time. They are so attached to their favourite teams that they could display 2 $\qquad$ emotions, not just during the course of the match, but much after the actual event is over. This phenomenon, 3 $\qquad$ common across the globe, is more seen in countries like Brazil, India, the US and even the UK, where the favourite sport may not be the same in each of these nations. In spite of this craze and hysteria, sport has 4 $\qquad$ a long way. It is accepted as one of the world's most 5 $\qquad$ pastimes ever.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. though
2. in spite of
3. as
4. despite

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Allegiance to one's favourite team is something that sports fans 1 $\qquad$ over a period of time. They are so attached to their favourite teams that they could display 2 $\qquad$ emotions, not just during the course of the match, but much after the actual event is over. This phenomenon, 3 $\qquad$ common across the globe, is more seen in countries like Brazil, India, the US and even the UK, where the favourite sport may not be the same in each of these nations. In spite of this craze and hysteria, sport has 4 $\qquad$ a long way. It is accepted as one of the world's most 5 $\qquad$ pastimes ever.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. fame
$\times$ 2. came
3. come
4. game

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Allegiance to one's favourite team is something that sports fans 1 $\qquad$ over a period of time. They are so attached to their favourite teams that they could display 2 $\qquad$ emotions, not just during the course of the match, but much after the actual event is over. This phenomenon, 3 $\qquad$ common across the globe, is more seen in countries like Brazil, India, the US and even the UK, where the favourite sport may not be the same in each of these nations. In spite of this craze and hysteria, sport has 4 $\qquad$ a long way. It is accepted as one of the world's most 5 $\qquad$ pastimes ever.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans

- 1. entertaining

X 2. tiresome
X 3. inhibited
4. detrimental

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | TCS Gito Bitan |
| Exam Date | 09/12/2022 |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 In a certain code language, 'FLOAT' is written as 'WONZI' and 'TRIBE' is written as 'DUHEW'. How will 'GARDEN' be written in that language?
Ans

1. QZQGDJ
2. QZUHDJ
3. QZUGDJ
4. QDUGHJ
Q. 2 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(21,33,31)$
(42, 17, 26)
Ans 1. $(36,14,35)$
5. $(46,19,24)$
6. $(35,27,29)$
7. $(32,39,20)$
Q. 3 By interchanging the given two signs and numbers which of the following equation will be correct?

+ and -, 6 and 3
Ans
X $1.8-3 \times 4 \div 6+9=18$

2. $8+4 \times 6 \div 3-9=15$
3. $9 \div 3 \times 4-6+7=10$
4. $6 \div 2 \times 8+3-1=20$
Q. 4 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Pain : Agony :: Anger: ?
Ans
X 1. Calm
5. Rage
6. Sad
7. Peace
Q. 5 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans

1. (19-28-48)
2. (17-27-47)
3. $(15-25-49)$
4. (13-23-43)
Q. 6 By Interchanging the given two numbers which of the following equation will be correct?
1 and 9
Ans
$1.9 \times 3-4 \div 2+1=10$
X2. $1+9 \times 3-4 \div 2=18$
X $3.9 \times 2+1-8 \div 4=12$
X4.9-1+6 $9 \times 3=7$
Q. 7 Which of the following calendars will be the same as the calendar for the year 2009?

Ans
X 1.2025
2. 2015

X 3.2036
X4. 2042
Q. 8 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 3$.

$\times 4$.

Q. 9 Select the correct mirror image of the given combination when the mirror is placed at ' PQ ' as shown below.

## TRAUM8TIC

## Q

Ans
×1. ЭTOMMUAT
~ JIT8MUAЯT
x. ОIT8MAUЯT
$\times$ ๖. ОITAMUAЯT
Q. 10 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 3 '.



Figure 1
Figure 2
Figure 3

Ans
$\times 1.2$
$\times 2.1$

- 3.4
$\times 4.6$
Q. 11 If $P \div Q$ means that $P$ is the mother of $Q, P-Q$ means that $P$ is the father of $Q, P \times Q$ means that $P$ is the sister of $Q$, then which of the following expression shows that $B$ is the daughter of $A$ ?
Ans
$X 1 . B-A \div C$

2. $A-B \div C$

X3. $A-B \times C$
4. $C \div B-A$
Q. 12 Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statements.
Statements:
Some watches are projectors.
All projectors are lamps.
Some heaters are watches.
Conclusions:
(I) Some heaters are projectors.
(II) Some lamps are heaters.
(III) All watches are lamps.

Ans
X 1. Only conclusion II follows
2. None of the conclusions follow

X 3. Only conclusion I follows
4. Either conclusion I or conclusion III follows
Q. 13 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Paint : Art :: Prose : ?
Ans
X 1. Music
2. Literature

X 3. Drama
$\times 4$. Theatre
Q. 14 A \# B means ' $A$ is the brother of $B$ '
$A @ B$ means ' $A$ is the son of $B$ '
$A \& B$ means ' $A$ is the wife of $B$ '
$A \% B$ means ' $A$ is the mother of $B$ '
If $A \% B \& C$ \# $@ E$, then how is $B$ related to $E$ ?
Ans
X 1. Sister
X 2. Wife
X 3. Daughter
4. Daughter-in-law
Q. 15 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

$\times 2$

$\times 3$

$\checkmark 4$

Q. 16 In the following question, select the missing number from the given series.
$15,4,-8,-21,-35$, ?
Ans
X 1. -48
2. -50

X 3. -49
$\times 4 .-30$
Q. 17 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, EVKT, IPSJ, MJAZ, ?
Ans
X 1. RQPH
2. QDIP

X 3. TDIC
X4.RMQR
Q. 18 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(4,21,33)$
$(10,111,141)$
Ans $\times 1 .(13,45,97)$
2. $(25,53,128)$
3. $(65,60,244)$
4. $(24,52,128)$
Q. 19 Which of the following letter-clusters will replace the question mark (?) in the given
series?
ARC, EPF, JNI, PLL, ?
Ans

1. WJO
2. QLP
3. WLQ
4. QKP
Q. 20 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. DOL
5. MIP
6. ARI
7. NEV
Q. 21 In a certain code language, 'TEACHER' is written as 'AETCREH' and 'STUDENT' is written as 'UTSDTNE'. How will 'CLASSES' be written in that language?

Ans

1. ALCSSES
2. SESSALC
3. ALCSESS
4. CLASESS
Q. 22 Which two signs should be interchanged to make the given equation correct?
$81 * 9+15 \div 3-4=50$
Ans
X 1. - and *
X 2. + and -
5. $\div$ and -
6. $\div$ and *
Q. 23 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some A are W.
II. Some W are C.

Conclusions:
I. All A are C.
II. No $C$ is $W$.
III. No W is A.

Ans

1. Neither conclusion follows
2. Only conclusion II follows
3. All conclusion follows
4. Only conclusion I follows
Q. 24 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
12:132:: 20 : 380 :: 2 : ?
Ans
5. 8
6. 6
7. 12
8. 2
Q. 25 Select the figure that will come next in the following series.


Ans


## Section: General Awareness

Q. 1 Prithviraja III defeated an Afghan ruler named $\qquad$ in 1191.
Ans $\times 1$. Sultan Mahmud
X 2. Muhammad Ibn Abbas
X 3. Muhammad Ibn Suri
4. Sultan Muhammad Ghori
Q. 2 Sharmila Biswas, who was awarded the 'Best Choreography Award' in 1998 by the Ministry of Information and Broadcasting, represents which of the following classical dance forms?
Ans
X 1. Manipuri
2. Odissi

X 3. Kathakali
$\times 4$. Kathak
Q. 3 The Paralympics Games - 2024 will be hosted by $\qquad$ -.
Ans
X 1 . USA
$X$ 2. China
X 3. Spain
4. France
Q. 4 The women of which tribe perform the traditional folk dance called Chakri?

Ans $\times 1$. Kaul
2. Kanjar
3. Gond
4. Bharia
Q. 5 Which of the following terms is NOT included in the Preamble of Indian Constitution?

Ans
$X 1$. Sovereign
$X$ 2. Justice
X 3. Fraternity
4. Federalism
Q. 6 The State Finance Commission is appointed every $\qquad$ years by the $\qquad$ _.
Ans

- 1. 5 , state government

X 2.5, central government
$\times 3.2 .5$, state government
4.2.5, central government
Q. 7 The Energy Conservation (Amendment) Bill, 2022 amends the Energy Conservation Act, 2001 to empower the central government to specify a $\qquad$ -.

Ans

1. carbon credit trading scheme
2. coal based station
3. coastal regulation scheme
4. eco-sensitive zone
Q. 8 The Delhi Municipal Corporation (Amendment) Bill 2022 seeks to unify the how many municipal corporations into a single one?
Ans
X 1. Four
5. Three
6. Two
7. Five
Q. 9 What is the role of ribosomes of a polysome?

Ans $\times 1$. The ribosomes synthesise the fats
2. The ribosomes of a polysome translate the mRNA into proteins.
3. The ribosomes of a polysome translate the rRNA into proteins.
4. The ribosomes of a monosome translate the rRNA into proteins.
Q. 10 Which type of tax acts as automatic stabiliser in the economy?

Ans
X 1. Professional tax
X 2. Wealth tax
X 3. Capital gains tax
4. Proportional income tax
Q. 11 The world's largest river lies in which of the following continent?

Ans

1. South America
2. Australia
3. Africa
4. North America
Q. 12 In which of the following months is Gokulashtami celebrated every year as per Hindu tradition?

Ans
< 1. Vaishakh
2. Bhadrapada
3. Asadha
4. Chaitra
Q. 13 Which of the following is NOT a method of measuring national income?

Ans

1. Intermediate goods method
2. Expenditure method
3. Income method
4. Product method
Q. 14 Sambhar Lake is situated in which of the following states?

Ans
X 1. Kerala
2. Madhya Pradesh
3. Rajasthan
4. Karnataka
Q. 15 Which of the following waterways separates India from Sri Lanka?

Ans $\times 1$. Arabian Sea
2. Bay of Bengal
3. Andaman Sea
4. Palk Strait
Q. 16 Which of the following is the highest gravity dam in India?

Ans
X 1. Hirakund Dam
2. Bhakra Dam
3. Sardar Sarovar Dam
4. Mettur Dam
Q. 17 Identify the chemical formula of ammonium hydroxide.

Ans

- 1. $\mathrm{NH}_{4} \mathrm{OH}$

X 2. $\mathrm{NH}_{4} \mathrm{O}_{2}$
X $3 . \mathrm{NH}_{3} \mathrm{O}$
X 4. $\mathrm{NH}_{2} \mathrm{OH}$
Q. 18 Which of the following sites of Harappan civilization is located near Bolan Pass?

Ans

1. Mehrgarh
2. Chirand
3. Gufkral
4. Koldihwa
Q. 19 How much percentage of nitrogen is present in the atmosphere?

Ans

1. $78 \%$
< 2. 89\%
2. $67 \%$
3. $71 \%$
Q. 20 Partition of Bengal held in $\qquad$ .
Ans
$\times 1.1901$

- 2.1903

3. 1905
4. 1907
Q. 21 In which year was India House established by Shyamji Verma?

Ans

1. 1905
2. 1899
3. 1902
4. 1909
Q. 22 In September 2022, which High Court has declared the "Duare Ration" scheme as illegal and against the National Food Security Act?

Ans
X 1. Delhi
2. Calcutta
3. Patna
4. Allahabad
Q. 23 Which country beat India in the men's hockey semi-final event at Tokyo Olympics, 2020?

Ans
X 1. Germany
X 2. Pakistan
3. Belgium
$\times 4$. Australia
Q. 24 According to census 2011, the literacy rate of India is $\qquad$ -

Ans $\times 1.75 .04$ percent
2. 74.04 percent

X 3. 77.04 percent
X 4.76 .04 percent
Q. 25 With which instrument is Ustad Sultan Khan associated?

Ans
X 1. Sitar
2. Sarod
3. Tabla
4. Sarangi
Q. 1 The pie chart given below shows the number of boys in 8 schools. The total number of boys in all these 8 school is 6000 . Number of boys in a particular school is shown as a percent of total number of boys in all these 8 schools.


Which of the following statement is correct?
I. The difference between number of boys in school M and Q are 1660.
II. The sum of number of boys in school J, K and L are 2400.

Ans
X 1. Both I and II
X 2. Only 1

- 3. Only II

X 4. Neither I nor II
Q. 2 The remainder when $19^{19}+20$ is divided by 18 , is:

Ans

- 1.3
$\times 2.2$
$\times 3.1$
$\times 4.0$
Q. 3 What is the value of $\sin 75^{\circ}+\sin 15^{\circ} ?$

Ans
$x$ 1. $\frac{1}{\sqrt{2}}$
X2. $\frac{\sqrt{3}}{2}$
2. $\sqrt{\frac{3}{2}}$

X4. $\frac{3}{\sqrt{2}}$
Q. 4 The following table shows the number of elected persons from various partics in a state assembly.

| Years |  | 2015 | 2016 | 2017 | 2018 | 2019 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| P | 62 | 70 | 52 | 90 | 82 | 80 |
| Q | 80 | 90 | 60 | 70 | 76 | 70 |
| R | 90 | 80 | 100 | 50 | 80 | 65 |
| S | 55 | 60 | 70 | 80 | 75 | 72 |

Find the difference between the number of seats won by party R and party Q in all the elections put together.
Ans
$\times 1.18$
2. 19
$\times 3.17$
$\times 4.20$
Q. 5 The table given below shows the number of students joining in 6 different universities.

| Universities | Students |
| :---: | :---: |
| A | 275 |
| B | 215 |
| C | 350 |
| D | 250 |
| E | 450 |
| F | 170 |

What is the ratio number of students joining in university $A$ to the number of student joining in university $F$ ?
Ans
$\times 1.17: 39$
$\times 2.51: 37$
$\times 3.34: 51$
4.55:34
Q. 6 A grocery shop is offering 10\% discount on the purchase of Rs. 500 and above. A 5\% discount is given on the purchase of value above Rs. 250 but below Rs.500. A discount of additional $1 \%$ is given if payment is made instantly in cash. How much would a customer have to pay by cash if he buys 25 packets of biscuits and one packet is priced at Rs.30?

Ans
X 1.Rs. 670.25
2. Rs. 668.25
3. Rs. 675
4. Rs. 667.05
Q. 7

If the ratio of corresponding sides of two similar triangles is $\sqrt{5}: \sqrt{7}$ then what is
the ratio of the area of the two triangles?
Ans
$\times 1 . \sqrt[3]{5}: \sqrt{7}$
2. $25: 49$
3. $\sqrt{5}: \sqrt{7}$
4.5:7
Q. 8 If $\operatorname{cosec} \theta+\cot \theta=2$, then what is the value of $\operatorname{cosec} \theta$ ?

Ans

1. $\frac{5}{4}$
2. $\sqrt{2}$
3. $\sqrt{5}$
4. $\frac{3}{2}$
Q. 9 In the given figure, ABC is an isosceles triangle with $\mathrm{BC}=8 \mathrm{~cm}$ and $\mathrm{AB}=\mathrm{AC}$
$=5 \mathrm{~cm}$. The value of $\tan C-\cot B$ is $\qquad$ .


Ans
X1. $-\frac{5}{12}$
2. $-\frac{7}{12}$
3. $\frac{7}{12}$
4. $\frac{5}{12}$
Q. 10 The LCM of $\frac{3}{8}, \frac{5}{16}$ and $\frac{7}{2}$ is:

Ans
$\times 1.101 \frac{1}{2}$
2. $52 \frac{1}{2}$
3. $28 \frac{1}{2}$

X4. $25 \frac{1}{4}$
Q. 11 In an election between two candidates, a candidate who gets $64 \%$ of the votes polled is elected by a majority of $\mathbf{2 5 2}$ votes. What is the total number of votes polled?
Ans
X 1.950
2. 900
3. 850
4. 800
Q. 12 The table given below shows the number of salesman in five companies.

| Companies | Salesman |
| :---: | :---: |
| C1 | 35 |
| C2 | 10 |
| C3 | 30 |
| C4 | 5 |
| C5 | 15 |

What is the average number of salesman in $\mathrm{C} 2, \mathrm{C} 4$ and C 5 ?
Ans
$\times 1.5$
2. 10
$\times 3.15$
4. 20
Q. 13 If $y+\frac{1}{y}=11$, then the value of $y^{3}-\frac{1}{y^{3}}$ is:

Ans
$\times 1.345 \sqrt{13}$
2. $360 \sqrt{13}$
3. $352 \sqrt{13}$
$\times 4.368 \sqrt{13}$
Q. 14 The number of solid spheres, each of diameter 6 cm , that could be moulded to form a solid metal cylinder of height 90 cm and diameter 4 cm is:
Ans

1. 10
$\times 2.14$
$\times 3.16$
2. 13
Q. 15 If $b \cos \theta=a$, then $\operatorname{cosec} \theta+\cot \theta=$ $\qquad$ .
Ans
$\times 1 . \sqrt{\frac{1}{b+a}}$
$\times 2 . \sqrt{\frac{b-a}{b+a}}$
3. $\sqrt{\frac{b+a}{b-a}}$
$\times 4 . \sqrt{\frac{1}{b-a}}$
Q. 16 If $\left(x-\frac{1}{x}\right)^{2}=12$, what is the value of $\left(x^{2}-\frac{1}{x^{2}}\right)$, given that $x>0$ ?

Ans
X1. $6 \sqrt{2}$
2. $8 \sqrt{3}$

X 3. $6 \sqrt{3}$
$\times 4.8 \sqrt{2}$
Q. 17 If the average of $s$ numbers is $r^{4}$ and the average of $r$ numbers is $s^{4}$, then find the average of all $r+s$ numbers?

Ans

1. $r s\left(r^{2}+s^{2}-r s\right)$
2. IS
3. $r^{2}+s^{2}$
4. $r s\left(r^{2}+s^{2}\right)$
Q. 18 A man sells two cows for Rs.15,640 each, gaining 15\% on one and losing 15\% on the other. Find his total gain or loss.
Ans
5. Rs. 720 loss

X 2. Rs. 360 loss
X 3. Rs. 720 gain
X 4. Rs. 360 gain
Q. 19 Two persons $P$ and $Q$ can do a job together in 36 days. $P$ is 3 times as efficient as $Q$. In how many days can $Q$ alone complete the work?
Ans

1. 148
2. 140
3. 144
4. 146
Q. 20 The area of a sector of a circle is 88 sq . cm ., and the angle of the sector is $45^{\circ}$. Find the radius of the circle. (Use $\pi=\frac{22}{7}$ )

Ans
X $1.3 \sqrt{ } 11 \mathrm{~cm}$
2. $4 \sqrt{ } 14 \mathrm{~cm}$
3. $6 \sqrt{ } 13 \mathrm{~cm}$
$4.5 \sqrt{ } 14 \mathrm{~cm}$
Q. 21 What is the fourth proportional to 7, 15 and 21?

Ans
$\times 1.29$
2. 30
$\times 3.48$
4. 45
Q. 22 A, B and C can separately do a work in 6,10 and 15 days respectively. They started to work together but C left after 2 days. In how many days will the remaining work be finished?
Ans
$\times 1.1 \frac{2}{4}$
2. $1 \frac{1}{4}$
3. $1 \frac{5}{8}$
4. $2 \frac{7}{4}$
Q. $23 \quad \mathrm{a}^{3}+\mathrm{b}^{3}+\mathrm{c}^{3}=3 \mathrm{abc}$ if $\qquad$ -

Ans
X1. $a=b=c$
2. $a+b+c=0$

X 3. $a+b+c=1$
X4. $a+b+c=-1$
Q. 24 In how many least number of complete years a sum of money become more than four times of itself at the rate of 50 percent per annum on simple interest?
Ans
X 1.9 years
2. 7 years
3. 6 years
4. 5 years
Q. 25 The length of the side of a cube is 1.4 cm . What is the volume of the largest sphere that can be taken out of the cube?
Ans

1. $1.44 \mathrm{~cm}^{3}$
2. $3.26 \mathrm{~cm}^{3}$
3. $2.66 \mathrm{~cm}^{3}$
4. $5.64 \mathrm{~cm}^{3}$

## Section : English Comprehension

Q. 1 Select the most appropriate meaning of the underlined idiom in the given sentence.

After several years of cheating on his PhD work, the candidate finally had to face the music and lose the opportunity.

Ans
X 1. Accept ignorance
2. To accept unpleasant consequences
3. Choose another alternative that is uninteresting
4. Be exposed
Q. 2 Select the most appropriate option to fill in the blank.

Sunil cannot $\qquad$ a trip to the US now because he has already spent a lot for the completion of his house.
Ans
X 1. visit
2. afford
$\times$ 3. spend
4. earn
Q. 3 Select the most appropriate option that can substitute the underlined segment in the given sentence.
He was not able to adopt himself to the new environment of the hostel.
Ans
X 1. able to adept himself to
X 2. able for adopt himself to
X 3. able to adopt himself with
4. able to adapt himself to
Q. 4 Rearrange the parts of the sentence in correct order.

NFTs are
P. digital collectables that exist on
Q. and are better known for recently
R. taking the art world by storm
S. online ledgers known as blockchains

Ans

1. PSQR

X 2. RPQS
X 3.RQPS
X 4. SPRQ
Q. 5 Choose the incorrectly spelt word.

Ans $\times 1$. Flawless
2. Rudimentary
3. Primitive
4. Impracticle
Q. 6 A part of the given sentence which has been underlined may contain a spelling error. Select the option that correctly rectifies the spelling error. If there is no error, select 'No error'.

The police came to the accident spot after receiving an annonymous phone call.
Ans
< 1. Anonnymous
2. No error
3. Anonymous
4. Anonymaus
Q. 7 Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

I told Rahu on wait for two hours at the bus stop.
Ans
X1. at
X 2. for
X 3. told
4. on
Q. 8 Select the most appropriate synonym of the underlined word in the given sentence.

The director is at the apex of the managing committee.
Ans
$X$ 1. Core
X 2. Bottom
X 3. Corner
4. Pinnacle
Q. 9 Select the correct indirect form of the given sentence.
"Meena, will you assist me to pack our belongings?" Asked her mother.
Ans
X 1. Meena's mother asked her whether she will assist her to pack their belongings.
X 2. Meena's mother asked her whether if she would assist her to pack their belongings.
3. Meena's mother asked her whether she would assist her to pack their belongings.

X 4. Meena's mother asked her whether she can assist her to pack their belongings.
Q. 10 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

Huda lived in / the southern part / off Germany.
Ans

1. off Germany
$X$ 2. the southern part
X 3. No error
2. Huda lived in
Q. 11 Select the most appropriate ANTONYM of the given word.

## Everlasting

Ans

1. Eternal
2. Transient

X 3. Fatuous
$\times 4$. Misled
Q. 12 Select the correct active form of the given sentence. Our machine is shipped to ten different countries.

Ans $\quad$ 1. We shipped our machine to ten different countries.
2. We are shipping our machine to ten different countries.
3. Someone ship our machine on ten different countries.
4. We ship our machine to ten different countries.
Q. 13 Select the correct passive form of the given sentence.

The citizens have chosen that man as their leader.
Ans $\times 1$. That man had been chosen by the citizens as their leader.
2. That man has been chosen by the citizens as their leader.

X 3. That man is chosen by the citizens as their leader.
X 4. That man was chosen by the citizens as their leader.
Q. 14 Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully.

Neither the teachers (or the principal likes the new budget) cuts.
Ans
Х 1. either the principal likes the new budget
$\times 2$. or the principal like the new budget
X 3. nor the principal like the new budget
4. nor the principal likes the new budget
Q. 15 Select the most appropriate ANTONYM of the word 'ACQUISITION' from the given sentence.

The head coach got surprised with the level of enthusiasm shown by the players as they all were demoralised after the first loss.

Ans
X 1. Enthusiasm
2. Demoralised
3. Surprised
4. Loss
Q. 16 Select the most appropriate synonym of the underlined word.

The fraudsters hoodwinked us and took away all our valuables.
Ans
X 1. Coerced
$\times 2$. Threatened
X 3. Misguided

- 4. Deceived
Q. 17 Select the option that can be used as a one-word substitute for the given group of words.

One who loves humanity or believes in universal brotherhood
Ans
X 1. Humane
X 2. Magnanimous
3. Philanthropist

X 4. Misanthropist
Q. 18 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. I had my own crib in the bedroom next to our parent's room.
Q. Annie awoke hungry at 2:30 a.m. each morning.
R. When Annie would cry out, I would climb out of my crib and come running into our parent's room to check on her.
parent's room to check on her.
S . For the first few months, Annie slept in a crib by our parents' bed.
Ans
X 1.PRSQ
X 2. RPQS
X 3. QRSP
4. SPQR
Q. 19 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
Writing down instructions, steps and remembering them can make you look really efficient and $\qquad$ —.
Ans

1. diligent
2. dormant
3. operable
4. sluggish
Q. 20 Select the most appropriate meaning of the given idiom.

## Lose your marbles

Ans

1. To go insane
2. To handle stress
3. To lower down anger
4. To be patient

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Mob lynching is the act of a group of people murdering a person without due process of law for an (1) $\qquad$ infraction. In recent years, mob lynching has become one of the hate
(2) that targets persons of a certain iden strangers on the basis of a mere (3) $\qquad$ . Without obeying any principles of law, the mob takes the law into their own hands to punish the supposed (4) $\qquad$ in the name of justice. Mob lynching is a breach of human dignity and a (5) $\qquad$ violation of the Universal Declaration of Human Rights, according to Article 21 of the Indian Constitution.

SubQuestion No : 21
Q. 21 Select the most appropriate answer to fill in blank 1.

Ans

1. alleged
2. advantaged
3. applied
4. encouraged

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Mob lynching is the act of a group of people murdering a person without due process of law for an (1) $\qquad$ infraction in recent years, mob lynching has become one of the
(2) $\qquad$ that targets persons of a certain identity, members of a minority population, or strangers on the basis of a mere (3) $\qquad$ Without obeying any principles of law, the mob takes the law into their own hands to punish the supposed (4) $\qquad$ in the name of justice. Mob lynching is a breach of human dignity and a (5) $\qquad$ violation of the Universal Declaration of Human Rights, according to Article 21 of the Indian Constitution.

SubQuestion No : 22
Q. 22 Select the most appropriate answer to fill in blank 2.

Ans

1. crimes
2. gossips
3. goals
4. desires

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Mob lynching is the act of a group of people murdering a person without due process of law for an (1) $\qquad$ infraction. In recent years, mob lynching has become one of the hate
(2) $\qquad$ that targets persons of a certain identity, members of a minority population, or strangers on the basis of a mere (3) $\qquad$ . Without obeying any principles of law, the mob takes the law into their own hands to punish the supposed (4) $\qquad$ in the name of justice. Mob lynching is a breach of human dignity and a (5) $\qquad$ violation of the Universal Declaration of Human Rights, according to Article 21 of the Indian Constitution.

SubQuestion No : 23
Q. 23 Select the most appropriate answer to fill in blank 3.

Ans

1. suspicion
2. trust
3. evidence
4. logic

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Mob lynching is the act of a group of people murdering a person without due process of law for an (1) $\qquad$ infraction. In recent years, mob lynching has become one of the hate
(2) $\qquad$ that targets persons of a certain iden strangers on the basis of a mere (3) $\qquad$ Without obeying any principles of law the mob takes the law into their own hands to punish the supposed (4) $\qquad$ in the na of justice. Mob lynching is a breach of human dignity and a (5) $\qquad$ violation of the Universal Declaration of Human Rights, according to Article 21 of the Indian Constitution.

SubQuestion No: 24
Q. 24 Select the most appropriate answer to fill in blank 4.

Ans
$\times 1$ innocent
X 2. Iawman
X 3. faultless
4. accused

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Mob lynching is the act of a group of people murdering a person without due process of law for an (1) $\qquad$ infraction. In recent years, mob lynching has become one of the hate
(2) $\qquad$ that targets persons of a certain identity, members of a minority population, or strangers on the basis of a mere (3) $\qquad$ Without obeying any principles of law, the mob takes the law into their own hands to punish the supposed (4) $\qquad$ in the name of justice. Mob lynching is a breach of human dignity and a (5) $\qquad$ violation of the Universal Declaration of Human Rights, according to Article 21 of the Indian Constitution.

SubQuestion No : 25
Q. 25 Select the most appropriate answer to fill in blank 5.

Ans
X 1. prevalent
X 2. convenient
X 3. covert
4. flagrant

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Kottayam |
| Exam Date | 09/12/2022 |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All Cadbury are Nestle.
No Nestle is Amul.
Some Cadbury are Britannia.
Conclusions:
I. Some Nestle are Britannia.
II. No Amul is a Cadbury.
III. No Amul is Britannia.

Ans

1. Only conclusions I and II follow
2. Only conclusion I follows
3. Only conclusion II follows
4. Only conclusions I and III follow
Q. 2 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

Q. 3 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation.
Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its
constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. 5-23

X 2. 11-123
X 3.9-83
X4.7-51
Q. 4 In the following question, select the missing number from the given series.

600, 565, 530, 495, 460,?
Ans

- 1.420

2. 428
3. 430
4. 425
Q. 5 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
8: 448:: 9 : ? :: 11: 847
Ans $\times 1.576$
5. 577
6. 567
7. 562
Q. 6 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Bull : Cow :: Gander : ?
Ans
$\times 1$. Doe
8. Goose
9. Mare
10. Hen
Q. 7 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
11. UVZ

X 2. MNP
X 3. XYA
4. QRT
Q. 8 Select the figure that will come next in the following figure series.


Ans
$\times 1$.

$\times 2$.

$\times 3$


- 4. 


Q. 9 If $L+M$ means that $L$ is the father of $M, L \times B$ means that $L$ is the mother of $M, L-M$ means that $L$ is the brother of $M$ then which of the following expression shows that $A$ is the paternal uncle of $B$ ?
Ans
X1. $A-C+B$
2. $A-B+C$

X 3. A + B-C
X4. $A-B \times C$
Q. 10 Which of the following letter clusters will replace the question mark (?) and complete the following letter cluster series?
DW, FU, IR, NM, UF, ?
Ans
X 1. FV
2. GU
3. FU
4. EV
Q. 11 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All T are G.
II. All G are H.

Conclusions:
I. All T are H .
II. No G is T.
III. All H are G.

Ans

1. All conclusion follows
2. Only conclusion III follows
3. Only conclusion I follows
4. Only conclusion II follows
Q. 12 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$\mathbf{4 0} \mathbf{- 2 2 0} \div \mathbf{2 \times 2 + 2 0}=\mathbf{2 0 0}$
Ans
5. 20 and 40 , + and -
6. 2 and $20, \div$ and +
7. 220 and $40,+$ and $\times$
8. 220 and $20, \div$ and $\times$
Q. 13 Which two signs should be interchanged to make the given equation correct?
$7 * 9+3 \div 7-3=25$
Ans
9. $\div$ and *
10. $\div$ and +

X $3 .+$ and *
X4. + and -
Q. 14 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
$x$ and,- 4 and 2
l. $7-5 \times 4+8 \div 2$
II. $7 \times 3-8 \div \mathbf{2 + 4}$

Ans
$\times 1.25,23$
$\times 2.37,25$
2.35,3

X4.41,47
Q. 15 Select the correct mirror image of the given figure when the mirror is placed at ' $A B$ ' as shown.


Ans

Q. 16 Today is Friday. After 55 days, it will be:

Ans
$X$ 1. Tuesday
2. Thursday

X 3. Wednesday
X 4. Monday
Q. 17 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(19,23,4)$
$(13,27,14)$
Ans
X $1 .(25,26,2)$
X 2. $(25,27,4)$
3. $(25,27,2)$
$\times 4 .(25,26,4)$
Q. $18 A-B$ means ' $A$ is the mother of $B$ '
$A$ * $B$ means ' $A$ is the sister of $B$ '
$A \% B$ means ' $A$ is the husband of $B$ '
$A \$ B$ means ' $A$ is the son of $B$ '
If $Z$ * $A \$ B-C$ * $\% E$, then how is $Z$ related to $E$ ?
Ans
X 1. Sister
2. Wife
3. Husband's sister
4. Mother-in-law
Q. 19 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).
(x)


Ans
$\times 1$

$\times 2$

$\checkmark 3$.

$\times 4$.

Q. 20 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(182, 170, 97)
$(156,128,92)$
Ans
X $1 .(156,194,79)$
$\times 2 .(121,102,61)$
X $3 .(98,74,54)$
4. $(138,130,73)$
Q. 21 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NTSM, QNBA, THKO, WBTC, ?
Ans $\times 1$. NMOP
2. ZVCQ

X 3. RMNO
X 4. ZYQR
Q. 22 In a certain code language, 'ANIMISM' is written as 'INAMMSI' and 'EAGERLY' is written as 'GAEEYLR'. How will 'FULFILL' be written in that language?
Ans
X 1. LUFFLIL
2. LUFFLLI
3. LUFFIIL
4. LUFLFLI
Q. 23 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the
word)
Carpenter: Hammer
Ans

1. Fisherman : Net

X 2. Butcher: Meat
X 3. Mechanic: Car
X 4. Nurse: Patient
Q. 24 Which figure should replace the question mark (?) if the series were to be continued?

| B |  | $\infty$ |  | g | $\infty$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  | $\rightarrow$ | $>$ | $\downarrow$ |  |  | $\downarrow$ |
|  |  |  |  |  | $?$ |  |
|  | $\wedge$ | $<$ |  | $\vee$ |  |  |

Ans

Q. 25 In a certain code language, 'FELLOW' is written as 'NGHYQN' and 'PURPLE' is written as 'TWRGNR'. How will 'SUPRISED' be written in that language?
Ans

1. UWRTKUGF

X 2. KUGFUWRT
X 3. TRUWFGUK
4. TRWUFGUK

Section: General Awareness
Q. 1 Aid or auxiliary to trade includes which of the following?

Ans
X 1. Production
X 2. Selling
X 3. Buying
4. Warehousing
Q. 2 Nrityabharati Kathak Dance Academy in Pune was established by which of the following Sangeet Natak Akademi Awardees?

Ans

1. Rohini Bhate
2. Roshan Kumari
3. Kumidini Lakhia
4. Sitara Devi
Q. 3 The Government of $\qquad$ launched Mukhyamantri Chaa Srami Kalyan Prakalpa Scheme for tea garden workers.
Ans
X 1. Kerala
5. Assam
6. Tripura
7. Andhra Pradesh
Q. 4 The world's longest river the Nile flows through which of the following continent?

Ans

1. Africa
2. North America
3. South America
4. Europe
Q. 5 Taking cognizance of the pandemic situation in 2021, the Ministry of Ayush, Gol decided the message of International Day of Yoga 2021 celebration will be:

Ans
$X$ 1. Yoga at Home
2. Be with Yoga, Be at Home!
3. Yoga at Home, Yoga with Family!
4. Home Yoga and Yoga Home
Q. 6 Which of the following is NOT a capital expenditure?

Ans $\quad$ 1. Loans and advances by the central government
2. Expenditure on the acquisition of land
3. Investment in shares
4. Subsidies payment
Q. 7 Padma Shri awardee, Gulabo Sapera is a $\qquad$ dancer of Rajasthan.
Ans
X 1. Bhavai
X 2. Terah Taali
3. Kalbelia

X 4. Ghoomar
Q. 8 The region of Ganga Brahmaputra basin lies in $\qquad$ .

Ans
X1. $10^{\circ} \mathrm{N}$ to $10^{\circ} \mathrm{N}$ latitude
$\times 2.30^{\circ} \mathrm{N}$ to $50^{\circ} \mathrm{N}$ latitude
X $3.5^{\circ} \mathrm{N}$ to $10^{\circ} \mathrm{N}$ latitude
4. $10^{\circ} \mathrm{N}$ to $30^{\circ} \mathrm{N}$ latitude
Q. 9 Which state government launched the Matrushakti Udaymita Scheme to provide support to women entrepreneurs?
Ans
X 1. Madhya Pradesh
X 2. Rajasthan
3. Haryana

X 4. Gujarat
Q. 10 Which of the following revolutionaries stated during his trial that "he did not wish to glorify the cult of the bomb and pistol but wanted a revolution in society"?
Ans

1. Bhagat Singh
2. Surya Sen

X 3. Sachindra Nath Sanyal
4. Barindra Kumar Ghosh
Q. 11 Abhinav Bharat Society was a secret society of revolutionaries. It was established in
$\qquad$
Ans

1. Bombay Presidency
2. United Provinces
3. Punjab Province
4. Calcutta Presidency
Q. 12 The British physicist named Paul Dirac was known to have introduced the concept of
$\qquad$
Ans
$\times 1$. thermal ionisation
5. cosmic radiation
6. nuclear model of atom
7. antiparticle
Q. 13 Which of the following was awarded to Bharatnatyam dancer, Priyadarshini Govind in 1998?
Ans
X 1. Tagore Ratna
8. Kalaimamani

X 3. Nritya Choodamani
X 4. Kalidas Samman
Q. 14 Which special order of the courts means "arrested person should be presented before the court"?

Ans

1. Habeas corpus

X 2. Mandamus
X 3. Certiorari
4. Quo warranto
Q. 15 A judge of the Supreme Court can be removed only on the grounds of $\qquad$ -

Ans
X 1. disrespect of the Constitution
2. proven misbehaviour or incapacity
3. murder charges
4. lack of knowledge
Q. 16 Which of the following has discovered the sea route to India 1498?

Ans
X 1. Clive Lord
2. Henry the sailor
3. Captain Hudson
4. Vasco Da Gama
Q. 17 Which of the following is the first 'smoke-free state' in India?

Ans
X 1. Rajasthan
X 2. Uttarakhand
X 3. Bihar
4. Himachal Pradesh
Q. 18 What is the distance of the penalty mark from the midpoint of the goal post in football?

Ans
X1. 10 m
X2. 15 m

- 3.11 m
$\times 4.13 \mathrm{~m}$
Q. 19 Which of the following type of house remains were found in Mehrgarh site of Harappan civilization?
Ans
X 1. Triangular or circular

2. Rectangular or circular
3. Square or rectangular
4. Circular or square
Q. 20 In 1893, which Swiss chemist was the first to understand the molecular structures of inorganic substances - chemical compounds that do not contain carbon?
Ans
5. Alfred Werner
6. William Ramsay
7. George de Hevesy
8. John Dalton
Q. 21 $\qquad$ gas is used for the manufacturing of bleaching powder.
Ans
X 1. Nitrogen
X 2. Sulphur
X 3. Oxygen
9. Chlorine
Q. 22 Which of the following dance forms is associated with the state of Himachal Pradesh?

Ans
X 1. Rauf
2. Dhaman
$X$ 3. Phagua
X 4. Koli
Q. 23 In which of the following groups, are all plants monoecious?

Ans
X 1. Maize, Papaya, Poplar and Rose
X 2. Papaya, Poplar, Rose and Fig
3. Maize, Cucumber, Fig and Melon
4. Cucumber, Papaya, Poplar and Rose
Q. 24 The annual growth rate percentage population in India gradually started declining in the year $\qquad$ .

Ans
$\times 1.1991$
2. 1981
$\times 3.1971$
$\times 4.1951$
Q. 25 In which year Gay Lussac's Law of Gaseous Volumes was given by Gay Lussac?

Ans $\times 1.1812$
$\times 2.1800$
2. 1808

X4. 1802
Q. $1 \cos ^{3} 60-\cos ^{3} 240-\cos ^{3} 360=$ $\qquad$ .

Ans

1. $\frac{-3}{4}$

X2. $\frac{-7}{5}$
3. $\frac{-3}{5}$
4. $\frac{-9}{7}$
Q. 2 If $x+y+z=0$, then the value of $\frac{x^{2}}{y z}+\frac{y^{2}}{z x}+\frac{z^{2}}{x y}$ is:

Ans

- 1.3
$\times 2.1$
$\times 3.0$
$\times 4.2$
Q. 3 Three candidates $\mathbf{P}, \mathbf{Q}$ and $\mathbf{R}$ participated in an election. $\mathbf{P}$ got $35 \%$ more votes than $\mathbf{Q}$, and $R$ got $15 \%$ more votes than $Q$. P overtook $R$ by 2,412 votes. If $90 \%$ voters voted and no invalid or illegal votes were cast, then what was the number of voters in the voting list?
Ans

1. 46,900
2. 42,800
3. 42,210
4. 48,500
Q. 4 Two cities $A$ and $B$ are 135 km apart on a straight track. One car starts from $A$ at 8 a.m. and travels towards B at $25 \mathrm{~km} / \mathrm{h}$. Another car starts from B at 9 a.m. and travels towards $A$ at a speed of $30 \mathrm{~km} / \mathrm{h}$. At what time will they meet?
Ans
5. 11 a.m.
6. 10 a.m.
7. $10.45 \mathrm{a} . \mathrm{m}$.
8. 11.30 a.m.
Q. 5 Three successive discounts of $10 \%$ is equivalent to a single discount of:

Ans

1. $27.1 \%$
2. $19.0 \%$
3. $25.1 \%$

X4. $26.2 \%$
Q. 6 If $P T$ is a tangent at $T$ to a circle whose centre is $O$ and $O P=17 \mathrm{~cm}$ and $O T=8 \mathrm{~cm}$, find the length of the tangent segment PT.
Ans
$\times 1.13 \mathrm{~cm}$
$\times 2.14 \mathrm{~cm}$
$\times 3.16 \mathrm{~cm}$
4. 15 cm
Q. 7 The LCM of 96,136 and 504 is:

Ans
1.34272

X2. 36548
$\times 3.25872$
4. 28564
Q. 8 A dealer sells his goods at a profit of $20 \%$, but uses a weight of 800 g in place of a kg weight. Find his real gain percentage.
Ans
< 1. $40 \%$
X 2. 44\%

- $3.50 \%$

4. 42\%
Q. 9 The circumference of the two circles is 264 cm and 396 cm respectively. What is the difference between their radii?

Ans
X 1.25 cm
$\times 2.32 \mathrm{~cm}$
3. 16 cm
4. 21 cm
Q. 10 In triangle $\mathrm{ABC}, \angle \mathrm{B}=90^{\circ}$, and $\angle \mathrm{C}=45^{\circ}$. If $\mathrm{AC}=2 \sqrt{2} \mathrm{~cm}$, then the length of BC is:

Ans
$X 1.3 \mathrm{~cm}$
2.2 cm

X 3.1 cm
4.4 cm
Q. 11 In how much time will a sum of Rs. 10200 amounts to Rs. 19125 at the rate of 12.5 percent per annum at simple interest?

Ans
$\times 1.6$ years
$\times 2.5$ years
3.8 years
4.7 years
Q. 12 The import and export of a country (in lakhs rupees) during a certain period of time is given in the following bar-graph. Read the bar-graph carefully and answer the following question.


During which year the difference between import and export is minimum?
Ans

1. 2018-19
2. 2019-20
3. 2016-17
4. 2017-18
Q. 13 If $5 \sin ^{2} \mathrm{~A}+3 \cos ^{2} \mathrm{~A}=4,0<\mathrm{A}<90^{\circ}$, then what is the value of $\tan \mathrm{A}$ ?

Ans
$\times 1.0$
$\times 2.3$

- 3.1
$\times 4.2$
Q. 14 In a hotel, there are 120 staff members. Their average weight is 62.5 kg . When one of the staff members leaves the hotel, the average weight is reduced by $\mathbf{2 5 0} \mathbf{~ g}$. Find the weight of the staff member who left the hotel.
Ans
X 1.64 .25 kg
X 2.78 .75 kg
X 3.90 .50 kg

4. 92.25 kg
Q. 15 Anshu, Swati and Rajni can finish a work in 4 days if they work together. However, Anshu alone will take 9 days to complete the work, and Swati alone will complete the work in 12 days. How many days will Rajni alone take to complete the work?
Ans
5. 18
$\times 2.12$
$\times 3.24$
6. 16
Q. 16

The value of $\frac{(p-q)^{3}+(q-r)^{3}+(r-p)^{3}}{12(p-q)(q-r)(r-p)}$, where $p \neq q \neq r$, is equal to:
Ans
$\times 1 . \frac{1}{9}$
$\times 2 . \frac{1}{3}$
จ3. $\frac{1}{4}$
X4. $\frac{1}{2}$
Q. 17 Calculate the mean from the following table.

| Scores | Frequencies |
| :---: | :---: |
| $0-10$ | 2 |
| $10-20$ | 4 |
| $20-30$ | 12 |
| $30-40$ | 21 |
| $40-50$ | 6 |
| $50-60$ | 3 |
| $60-70$ | 2 |

Ans
X 1.34 .2

- 2.33 .4
$\times 3.32 .6$

4. 35.8
Q. 18 The table given below shows the number of books sold by 7 shops.

| Shops | Books |
| :---: | :---: |
| A | 34 |
| B | 48 |
| C | 50 |
| D | 100 |
| E | 64 |
| F | 110 |
| G | 16 |

What is the difference between number of books sold by A and B together and the number of books sold by $E$ and $F$ together?
Ans
$\times 1.82$
$\times 2.96$

- 3.92
$\times 4.174$
Q. 19 ABC is an isosceles triangle such that $\mathrm{AB}=\mathrm{AC}, \angle \mathrm{ABC}=55^{\circ}$, and AD is the median to the base BC . Find the measure of $\angle B A D$.
Ans
$\times 1.50^{\circ}$
$\times 2.55^{\circ}$
-3. $35^{\circ}$
$\times 4.90^{\circ}$
Q. 20 What is the value of $(a+b)^{3}-a^{3}+b^{3}$ ?

Ans
X 1. $-3 a b(a-b)+2 b^{3}$
2. $3 a b(a+b)+2 b^{3}$
3. $3 a b(a-b) b^{3}$
4. $-3 a b(a+b)+b^{3}$
Q. 21 What is the value of $\sin 28^{\circ} \sin 35^{\circ} \sin 45^{\circ} \sec 62^{\circ} \sec 55^{\circ} ?$

Ans
$\times 1.2$
2. $\frac{1}{\sqrt{2}}$
3. $\sqrt{2}$
4. $1 / 2$
Q. 22

The third proportional of a and $\frac{b^{4}}{4 a}$ is:
Ans
$\times 1 \cdot \frac{b^{8}}{16 a^{2}}$
×2. $\frac{b^{8}}{8 a^{2}}$
X 3. $\frac{b^{8}}{8 a^{3}}$
4. $\frac{b^{8}}{16 a^{3}}$
Q. 23 A solid cone of height 42 cm with diameter of its base 42 cm is cut out from a wooden solid sphere of radius 24 cm . Find the percentage of wood wasted correct to two places of decimal.
Ans
X 1.75.56\%
X $2.56 .65 \%$

- 3. $66.50 \%$

X4.67.50\%
Q. 24 The largest 5-digit number that is exactly divisible by 88 is:

Ans

1. 99968
2. 99689
3. 68999
4. 66698
Q. 25 The following table shows the marks of three students in different subjects. Marks in all subjects are from 100

| Name | Maths | Hindi | Science | English | IT | Sanskrit |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Ajay | 73 | 78 | 81 | 88 | 77 | 70 |
| Sudhir | 71 | 78 | 84 | 77 | 70 | 71 |
| Suman | 72 | 77 | 82 | 92 | 71 | 72 |

In which of the following subjects did the students perform the best in aggregate?
Ans

1. Hindi
2. IT
3. English
4. Science

Section : English Comprehension
Q. 1 Select the most appropriate option to complete the given sentence. The news of his arrest spread rapidly in every $\qquad$ of the city.
Ans
$X$ 1. rack and ruin
X 2. ins and outs
3. nook and corner
4. life and soul
Q. 2 Select the correct passive form of the given sentence.

A stranger buys flowers for the dead man's grave.
Ans $\quad \times 1$. Flowers is bought by a stranger for the dead man's grave.
2. Flowers were bought by a stranger for the dead man's grave.
3. Flowers have been bought by a stranger for the dead man's grave.
4. Flowers are bought by a stranger for the dead man's grave.
Q. 3 Select the correct direct form of the given sentence. He said that he was sorry for all that.
Ans
X 1. "I am sorry for all then." He says.
2. "I was sorry for all this." He said.
3. "I am sorry for all that." He says.
4. "I am sorry for all this." He said.
Q. 4 Select the most appropriate synonym of the underlined word in the given sentence.

I could not sleep because I was too eager, so I got up early and dressed.
Ans
X 1. Apathetic
$\times 2$. Tensed
X 3. Satisfied
4. Exhilarated
Q. 5 Select the INCORRECTLY spelt word in the following sentence.

The ruthless story of Pankaj's assassination in the Carribean islands is thrilling to
read.
Ans $\times 1$. Thrilling
2. Carribean
3. assassination

X 4. ruthless
Q. 6 Select the option that expresses the given sentence in passive voice.

The sewage water smells foul.
Ans
$X 1$. Foul is smelt by the sewage water.
2. The sewage water is foul when it is smelt.
3. The sewage water has a foul smell.
4. Passive construction is not possible.
Q. 7 Select the most appropriate option to fill in the blank.

The activist is working really hard and was determined to $\qquad$ for this cause.
Ans
X 1. have feet of clay
2. blow his own trumpet
3. move heaven and earth
4. keep the wolf from the door
Q. 8 Select the INCORRECTLY spelt word in the following sentence. Being a conscentious and single-minded person, Tubai has become inquisitive and perseverant in exploring young talents.
Ans
< 1. inquisitive
X 2. perseverant
2. conscentious

X 4. exploring
Q. 9 Select the option that can be used as a one-word substitute for the given group of words.
A battle or anything involving or causing much bloodshed
Ans
X 1. Autocracy
2. Sanguinary

X 3. Ineffable
X 4. Redtapism
Q. 10 Rearrange the parts of the sentence in correct order.

In addition to
P. primary threat to the Kemp's ridley sea turtle
Q. capture in fishing gear like shrimp
R. threatened nesting habitat, accidental
S. trawls and gill nets continues to be the

Ans $\times 1 . \mathrm{SPQR}$
X 2. SQRP
3. RQSP

X4.PQSR
Q. 11 Select the most appropriate synonym of the underlined word.

The heavy and abundant rainfall has a major role to play in the production of crops.
Ans
X 1. Cyclonic
2. Intermittent
3. Ample
4. Prolonged
Q. 12 Select the most appropriate option that can substitute the underlined segment in the given sentence.
Computers and mobile phones have become a necessary and important part of our lives.
Ans
$X$ 1. a requisite
2. an essential
$X$ 3. a required
$\times 4$. a needed
Q. 13 Select the most appropriate synonym of the underlined word in the given sentence.

Truth can never be concealed from anyone.
Ans
X 1. Separated
X 2. Borrowed
3. Disguised
4. Snatched
Q. 14 Select the most appropriate option that can substitute the underlined segment in the given sentence.

He will talk about nothing but films.
Ans
X 1. was talking at
$X 2$. is talking in
X 3. shall talking of
4. talks about
Q. 15 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

She is quiet a generous woman / to have donated / such a large amount / for the flood affected people.
Ans
$X$ 1. to have donated
X 2. for the flood affected people.
X 3. such a large amount
4. She is quiet a generous woman
Q. 16 Select the most appropriate option to fill in the blank. He is diligent, therefore he will $\qquad$ .
Ans
$X$ 1. remain
2. succeed
3. fail

X4. fall
Q. 17 Select the sentence with the appropriate use of preposition.

Ans $\times 1$. He arrived to Sunday morning.
X 2. He arrived at Sunday morning.
3. He arrived in Sunday morning.
4. He arrived on Sunday morning.
Q. 18 Select the most appropriate option to substitute the underlined segment in the given sentence.
After a prolonged discussion, Gayatri got a permission from her parents to study law.
Ans
X 1. got the permission
2. got proper permission
3. got permission
4. got her permission
Q. 19 Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.

I begged him to reconsider my application, but he put his foot down.
Ans
X 1. stamped his foot down
X 2. agreed to reconsider
3. refused to yield

X4. did not run
Q. 20 Select the most appropriate ANTONYM of the given word.

Care
Ans
X 1. Concern
2. Disregard
3. Worry
4. Attention

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Child marriage is a kind of right exploitation as to (1) $\qquad$ in practically all areas, the kid must be at least 18 years old. As a result, marrying off a kid before they reach the age of (2) $\qquad$ is an exploitation of their right. The long-standing (3) $\qquad$ of child marriage is one of the most prevalent reasons of child marriage. The elders want to plan for the (4) $\qquad$ of their family, so they marry off the children to establish their position. Most
crucially, poor individuals marry children to get rid of their debts, taxes, dowry, and other
(5) $\qquad$ -.

SubQuestion No : 21
Q. 21 Select the most appropriate answer to fill in blank 1.

Ans
$X 1$. bind
X 2. mature
3. marry

X 4. vote

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Child marriage is a kind of right exploitation as to (1) $\qquad$ in practically all areas, the kid must be at least 18 years old. As a result, marrying off a kid before they reach the age of (2) $\qquad$ is an exploitation of their right. The long-standing (3) $\qquad$ of child marriage is one of the most prevalent reasons of child marriage. The elders want to plan for the (4) $\qquad$ of their family, so they marry off the children to establish their position. Most crucially, poor individuals marry children to get rid of their debts, taxes, dowry, and other
(5) $\qquad$
SubQuestion No : 22
Q. 22 Select the most appropriate answer to fill in blank 2.

Ans
$\times 1$. restrain
X 2. adult
2. consent

X 4. growth

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Child marriage is a kind of right exploitation as to (1) $\qquad$ in practically all areas, the kid must be at least 18 years old. As a result, marrying off a kid before they reach the age of (2) $\qquad$ is an exploitation of their right. The long-standing (3) $\qquad$ of child marriage is one of the most prevalent reasons of child marriage. The elders want to plan for the (4) $\qquad$ of their family, so they marry off the children to establish their position. Most crucially, poor individuals marry children to get rid of their debts, taxes, dowry, and other
(5) $\qquad$ .

SubQuestion No : 23
Q. 23 Select the most appropriate answer to fill in blank 3.

Ans

1. custom
2. taboo
3. faith
4. hassle

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Child marriage is a kind of right exploitation as to (1) $\qquad$ in practically all areas, the kid must be at least 18 years old. As a result, marrying off a kid before they reach the age of (2) $\qquad$ is an exploitation of their right. The long-standing (3) $\qquad$ of child marriage is one of the most prevalent reasons of child marriage. The elders want to plan for the (4) $\qquad$ of their family, so they marry off the children to establish their position. Most crucially, poor individuals marry children to get rid of their debts, taxes, dowry, and other (5) $\qquad$
SubQuestion No: 24
Q. 24 Select the most appropriate answer to fill in blank 4.

Ans
$X$ 1. evolution
2. extension
$\times$ 3. coalition
$\times 4$. creation

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Child marriage is a kind of right exploitation as to (1) $\qquad$ in practically all areas, the kid must be at least 18 years old. As a result, marrying off a kid before they reach the age of (2) $\qquad$ is an exploitation of their right. The long-standing (3) $\qquad$ of child marriage is one of the most prevalent reasons of child marriage. The elders want to plan for the (4) $\qquad$ of their family, so they marry off the children to establish their position. Most crucially, poor individuals marry children to get rid of their debts, taxes, dowry, and other
(5) $\qquad$ .

SubQuestion No : 25
Q. 25 Select the most appropriate answer to fill in blank 5.

Ans
X 1. evils
$\times 2$. activities
3. obligations

X4. mitigations

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | ON Digital Zone iDZ Laxman Nagar |
| Exam Date | 09/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All A are M.
II. No M is B.

Conclusion:
I. Some M are A.
II. Some B are M.
III. Some A are B.

Ans $\times 1$. Both conclusions I and III follows
X 2. Both conclusions II and III follows
3. Only conclusion I follows

X 4. Only conclusion II follows
Q. 2 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
(56, 22, 26)
$(34,20,18)$
Ans

1. $(78,54,44)$
2. $(23,8,10)$
3. $(58,16,21)$
4. $(45,12,33)$
Q. 3 Which letter cluster will replace the question mark (?) to complete the given series? CBOM, FCQN, ?, LEUP, OFWQ
Ans
5. HDSO
6. IDSO
7. IDSP
8. IDTO
Q. 4 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Dentist : Teeth :: Dermatologist : ?
Ans
X 1. Bones
人 2. Blood vessels
9. Blood
10. Skin
Q. 5 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
(21, 225, 9)
$(12,49,2)$
Ans 1. $(14,64,2)$
11. $(11,18,7)$
12. $(15,54,3)$
13. $(13,81,6)$
Q. 6 Four different positions of the same dice are shown, the six faces of which are numbered 1 to 6 . Select the number that will be on the face opposite to the one showing ' 3 '.


Ans
$\times 1.5$
$\times 2.6$
X 3.1

* 4.2
Q. 7 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.


## PNe32YCA

M
Ans
xbИ635YCV
bИ635人C
${ }^{4}$ bN635人C
Q. 8 In a certain code language, 'ADAPTATION' is written as 'DAPAATITNO', ‘SKATEBOARD' is written as 'KSTABEAODR'. How will 'LIGHTBOARD' be written in that language?
Ans
X 1. ILHGBATODR
2. ILHGBTAODR

X 3. ILHGBTOADR
X4. ILHGTBAODR
Q. 9 In a certain code language, 'SHIRTS' is written as 'LKVVWU' and 'KURTAS' is written as 'UXNVDW'. How will 'FABRIC' be written in that language?

Ans
X 1. EELBLU
2. EDIFLU
3. DEIGLV
4. EDIGLU
Q. 10 By interchanging the given two signs and numbers which of the following equation will be not correct?

+ and $\times 5$ and 4
I. $4+8 \times 5-7 \div 1=37$
II. $5 \times 3-4+6 \div 2=-8$

Ans $\times 1$. Only II
2. Neither I nor II
3. Only I
4. Both I and II
Q. 11 If $A \times B$ means that $A$ is the mother of $B, A-B$ means that $A$ is the father of $B, A \div B$ means that $A$ is the sister of $B$, then which of the following expression shows that $P$ is the paternal grandmother of $R$ ?
Ans
$X 1 . P \div R-Q$
X2. $P \times Q \div R$
X $3 . Q \times P-R$
4. $P \times Q-R$
Q. 12 Which number will replace the question mark (?) in the following series? 3, 13, 53, 213, ?, 3413
Ans
X 1.1053
2. 853
$\times 3.953$
$\times 4.753$
Q. 13 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part
(rotation is NOT allowed).

(X)

Ans
$\times 1$.

$\times 2$

$\checkmark 3$.

$\times 4$

Q. 14 Select the odd group of numbers. (NOTE: Operations should be performed on the
whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1. (137-142-147)

2. 2. $117-122-129)$

X 3. (103-108-113)
4. (131-136-141)
Q. 15 Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
Some clowns are artists.
All artists are smart.
All smarts are rich.
Conclusions:
I. All artists are rich.
II. Some clowns are smart.
III. All clowns are artists.

Ans

1. All conclusions follow.
2. Both conclusions II and III follow.
3. Both conclusions I and II follow.
4. Both conclusions I and III follow.
Q. 16 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$60 \times 3+660 \div 6-20=290$
Ans $\times 1.6$ and $660, \times$ and $\div$
5. 20 and 6, + and -
6. 20 and 60, + and $\times$
<4. 20 and $660,+$ and $\div$
Q. 17 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1- Perpend
2- Perplex
3- Pernicious
4- Perpetrate
5- Perpetual
Ans
X 1.3,1,5,4, 2
X 2. 1, 3, 5, 4, 2
X $3.1,3,4,5,2$

- 4. 3, 1, 4, 5, 2
Q. 18 Which two signs should be interchanged to make the given equation correct?
$81+3 \div 9$ * $5-12=60$
Ans

1. $\div$ and +

X2. + and *
X $3 . \div$ and -
X4. + and -
Q. 19 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. MKOJ
2. URWQ
3. EQGP
4. XFWE
Q. 20 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NMR, QFZ, TYH, WRP, ?
Ans
$\times 1$ IRS
2. ZKX

X 3. ZXY
$X 4 . Z A M$
Q. $21 A$ \& $B$ means ' $A$ is the wife of $B$ '

A \# B means ' $A$ is the sister of $B$ '
$A$ @ $B$ means ' $A$ is the husband of $B$ '
$A \% B$ means ' $A$ is the father of $B$ '
If S \& T \% R @ P \# Q , then how is $\mathbf{S}$ related to $\mathbf{P}$ ?
Ans

1. Mother-in-law
2. Wife
3. Sister
4. Mother
Q. 22 Select the figure that will come next in the following figure series.


Ans
$\times 1$.

$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 23 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the
word.)
Horse : Stable :: Hen : ?
Ans
$X$ 1. Farm
X 2. Pen
3. Coop
$\times 4$. Shed
Q. 24 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(76,75,1)$
(90, 87, 9)
Ans
X $1 .(100,85,125)$
2. $(56,48,64)$

X 3. $(16,4,57)$
X 4. $(87,56,900)$
Q. 25 Select the figure that will come next in the following series.


Ans


Section : General Awareness
Q. 1 Buckminsterfullerene is a nanoparticle characterised by spherical geometry and a hollow interior which contains how many carbon atoms?

Ans
. 1.60
$\times 2.50$
$\times 3.40$
$\times 4.70$
Q. 2 The pH of a neutral solution is $\qquad$ .
Ans

1. 7
$\times 2.0$
$\times 3.8$
$\times 4.14$
Q. 3 Total deposits with Post Office savings organisations are included in which money supply aggregate?
Ans
X 1. M1
$\times 2$. M3
2. M4
$\times 4 . \mathrm{M} 2$

Question ID : 264330105382
Q. 4 India's first high-speed rail line is being constructed between (as of February 2022):

Ans
X 1. Mumbai-Pune
X 2. Delhi-Meerut
3. Mumbai-Ahmedabad

X 4. Delhi-Mumbai
Q. 5 Which of the following is NOT mentioned in the Indian Constitution as a Fundamental Duty?
Ans

1. To respect elders
2. To promote harmony

X 3. To safeguard public property
4. To defend the country
Q. 6 Who among the following received the MS Subbulakshmi Award from the Tamil Nadu Eyal Isai Nataka Manram for the year 2020?
Ans
X 1. Harini
2. Vani Jairam
3. L.R.Eswari
4. Saindhavi
Q. 7 In August 2022, Uttarakhand Chief Minister named which cricketer as the brand ambassador of the state?

Ans

1. Rishabh Pant
2. Hardik Pandya
3. Yuvraj Singh
4. Virat Kohli
Q. 8 Police of which State/UT launched the Anubhuti-QR Code-based feedback system in February 2022?
Ans
5. Madhya Pradesh
6. Goa
7. Maharashtra
8. Delhi
Q. 9 The first session of All India Depressed Classes congress was held at $\qquad$ in 1930.

Ans

1. Nagpur
2. Surat
$\times$ 3. Delhi
3. Kanpur
Q. 10 Which of the following cities did not hosted matches of FIFA U-17 Women's World Cup 2022 in India?

Ans

1. New Delhi
2. Navi Mumbai
3. Goa
4. Bhubaneswar
Q. 11 A good proportion of the $\qquad$ produced during the green revolution period (available as marketed surplus) was sold by the farmers in the market.

Ans
X 1. Rice and gram
2. Wheat and maize
3. Wheat and rice
4. Wheat and gram
Q. 12 Which of the following rivers flow through a rift valley?

Ans
X1. Son
X 2. Koshi
X 3. Luni
4. Tapi
Q. 13 $\qquad$ unemployment occurs with changes in economic activity over the business
cycle.
Ans
X 1. Frictional
2. Cyclical
3. Structural
4. Technological
Q. 14 Which of the following territories to the south and north were made part of the Chola kingdom by the successors of the ruler Vijayalaya?

Ans
X 1. Pallava and Chera
2. Pandyan and Pallava
3. Rashtrakuta and Chera
4. Vakataka and Satvahana
Q. 15 Sharodi Saikia is an exponent of which Indian classical dance form?

Ans

1. Sattriya
2. Kuchipudi
3. Bharatanatyam
4. Kathak
Q. 16 Kumkum Mohanty, an Odissi dancer received which of the following awards in 2005?

Ans
X 1. Padma Bhushan
X 2. Kalidas Samman
3. Padma Shri

X 4. Padma Vibhushan
Q. 17 $\qquad$ is the fundamental structural unit of living organisms.
Ans
X 1. Organ system
X 2. Tissue
X 3. Organ
4. Cell
Q. 18 Which of the following commissions recommended that "the appointment of Governor should be non-partisan"?
Ans
X 1. Fazal Ali Commission
X 2. Rajmannar commission
3. Sarkaria commission

X 4. Mandal commission
Q. 19 The Ennum Ezhuthum scheme was launched by the Tamil Nadu government to ensure foundational Literacy and Numeracy by 2025. This scheme was launched to bridge the learning gap among students aged $\qquad$ -
Ans
$\times 1$. between 10 and 15
$\times 2$ 2. under 5
3. under 8
4. between 6 and 10
Q. 20 Which act allows the government to confiscate the assets of newspaper in case of publishing anything "objectionable"?

Ans
X 1. Ilbert Act, 1883
2. Vernacular Press Act, 1878
3. Media Act, 1883
4. Newspaper Act, 1855
Q. 21 Which of the following is a festival of merriment and heralds the Assamese New Year and the onset of spring?
Ans
X 1. Ali-ai-ligang
( 2. Me-Dum-Me-Phi
3. Bohag Bihu
4. Kati Bihu
Q. 22 The lava plateaus are rich in which kind of soil?

Ans
X 1. Laterite soil
X 2. Alluvial soil
X 3. Red soil
4. Black soil
Q. 23 The T-20 Cricket World Cup for women was held in which country in 2020?

Ans
X 1. United Kingdom
X 2. India
X 3. West Indies
4. Australia
Q. 24 Which of the following is known as ammonia?

Ans

1. $\mathrm{NH}_{3}$
$\times$ 2. $\mathrm{PH}_{3}$
$X$ 3. $\mathrm{NO}_{3}$
X 4. $\mathrm{NO}_{2}$
Q. 25 Ashoka appointed $\qquad$ to solve the social problems in his region.
Ans
X 1. samaharta
X 2. nyayadheesh
X 3. amatya
2. dhamma mahamatta

Section: Quantitative Aptitude
Q. 1 The table given below shows the number of officers working in six companies.

| Companies | Officers |
| :---: | :---: |
| D | 400 |
| E | 500 |
| F | 600 |
| G | 350 |
| H | 450 |
| I | 800 |

What is the total number of officers working in all the companies?
Ans
X1. 2900
X2. 2600
3. 3400
4. 3100
Q. 2 If $\cos (A-B)=\frac{\sqrt{3}}{2}$, and $\cos (A+B)=0$, where $A$ and $B$ are positive acute angles and $A \geq B$, then the measures of $A$ and $B$ are:
Ans
$\times 1.80^{\circ}$ and $10^{\circ}$
2. $60^{\circ}$ and $30^{\circ}$
$\times 3.70^{\circ}$ and $20^{\circ}$
X $4.50^{\circ}$ and $40^{\circ}$
Q. 3 A person travels in a car at $40 \mathrm{~km} / \mathrm{h}$ for 3 hours, on a bike at $30 \mathrm{~km} / \mathrm{h}$ for 2 hours, and in a train at $\mathbf{8 0} \mathrm{km} / \mathrm{h}$ for 5 hours. What is the average speed at which he travelled?
Ans
$1.56 \mathrm{~km} / \mathrm{h}$
2. $60 \mathrm{~km} / \mathrm{h}$
3. $62 \mathrm{~km} / \mathrm{h}$
4. $58 \mathrm{~km} / \mathrm{h}$
Q. 4 If $x^{2}+\frac{1}{x^{2}}=66$, the value of $x-\frac{1}{x}$ is $\qquad$ $-$

Ans
$\times 1.10$
2. 8
< 3.9
4.6
Q. 5 If $\tan A=\frac{2}{3}$, then find $\sin A$.

Ans
$\times 1 . \frac{1}{3}$
2. $\frac{2}{\sqrt{13}}$
3. $\frac{2}{3}$
$\times 4 . \frac{3}{\sqrt{13}}$
Q. 620 men can finish a work in 220 days, but at the end of 90 days, 20 additional men are employed. In how many more days will the work be completed?
Ans
$\times 1.50$
$\times 2.60$

- 3.65
4.55
Q. 7 If $\frac{\sin \theta+\cos \theta}{\sin \theta-\cos \theta}=\frac{3}{2}$, then the value of $\sin ^{4} \theta-\cos ^{4} \theta$ is:

Ans
$\times 1 \frac{5}{12}$
2. $\frac{12}{13}$
$\times 3 . \frac{11}{12}$
$\times 4 . \frac{5}{13}$
Q. 8 The length of the side of a cube is 2.8 cm . What is the volume of the largest sphere that can be taken out of the cube?
Ans

- $1.11 .50 \mathrm{~cm}^{3}$
$\times 2.1 .15 \mathrm{~cm}^{3}$
$\times 3.11 .55 \mathrm{~cm}^{3}$
$\times 4.115 \mathrm{~cm}^{3}$
Q. 9 In a circle of radius 3 cm , two chords of length 2 cm and 3 cm lie on the same side of a diameter. What is the perpendicular distance between the two chords?

Ans
X 1. $\frac{4 \sqrt{3}-3 \sqrt{2}}{2} \mathrm{~cm}$
2. $\frac{4 \sqrt{2}-3 \sqrt{3}}{2} \mathrm{~cm}$

X 3. $\frac{4 \sqrt{2}-3 \sqrt{3}}{3} \mathrm{~cm}$
X4. $\frac{4 \sqrt{2}-3 \sqrt{3}}{4} \mathrm{~cm}$
Q. 10

If $\mathrm{k}+\frac{1}{\mathrm{k}}=4$, then what is the value of $\mathrm{k}^{4}+\frac{1}{\mathrm{k}^{4}}$ ?
Ans
$\times 1.410$
2. 192

- 3.212

4. 194
Q. 11

The ratio of candidates passing and failing within the State.

| State | A | B | C |
| :---: | :---: | :---: | :---: |
| No. of Students <br> (in lakh) | 1.50 | 1.40 | 1.75 |


| State | Passing:Failing |
| :---: | :---: |
| A | $6: 5$ |
| B | $3: 4$ |
| C | $8: 2$ |

What is the number of passing students in State B?

Ans

1. 0.6 lakh

X 2. 0.7 lakh
X 3. 0.4 lakh
X 4.0.3 lakh
Q. 12 The following pie chart shows the spending of a country on Swachh Bharat Abhiyan in various states during
a particular year. Total spending of the country $=1620$ crores
Study the pie chart and answer the following question.

```
CHART SHOWING SPENDING OF A COUNIRY ON SWACHH BHARAT
ABHIVAN IN VARIOUS STATES DURING A PARTICULAR YEAR
```



How much less money is spent on state P than on state S ?
Ans
X 1.211 crores
2. 211.2 crores
3. 205 crores
4. 210.6 crores
Q. 13 The LCM of 144, 360 and 450 is:

Ans
X 1.4800
2. 3600
$\times 3.7200$
4. 2400
Q. 14 A shopkeeper offers a cash discount of ₹ 85 first and then two successive discounts of $10 \%$ and $2 \%$ on the marked price of a fan. If the marked price of the fan is $₹ 1,285$, what is its selling price (in ₹ )?
Ans

1. 1058.4
$\times 2.1000 .4$
X 3.958 .4
X4. 1100
Q. 15 Sofia sold an iPhone at the cost of Rs. 46,068 at a loss of $12 \%$. At what cost will she have to sell it to get a profit of $18 \%$ ?
Ans
2. Rs.61,773
3. Rs.65,773
4. Rs. 58,350
5. Rs.52,350
Q. 16 If the number 123456789 is divided by 9 , then the remainder is:

Ans
-1.0
$\times 2.1$
$\times 3.2$
$\times 4.3$
Q. 17 Menu and Daya travel from point A to $B$, a distance of 105 km , at speeds of $10 \mathrm{~km} / \mathrm{h}$ and $25 \mathrm{~km} / \mathrm{h}$, respectively. Daya reaches point $B$ first and returns immediately and meets Menu at point $C$. Find the distance from point $A$ to point $C$.
Ans
X 1.35 km
2. 60 km

X 3.45 km
4. 62 km
Q. 18 If $36: 81:: X: 63$, what is the value of $X$ ?

Ans $\times 1.30$
$\times 2.31$
-3. 28
$\times 4.29$
Q. 19 Triangle $A B C$ and DEF are similar. If $A B=92 \mathrm{~cm}, B C=48 \mathrm{~cm}, A C=120 \mathrm{~cm}$, and the length of the smallest side of DEF is 200 cm , then find the length of the longest side of triangle DEF?

Ans
$\times 1.400 \mathrm{~cm}$
2. 225 cm
3. 350 cm
4. 500 cm
Q. 20 In an election contested between two candidates, 15\% of the total voters did not cast their votes and 100 votes got disqualified. The candidate who won the election won it by securing $45 \%$ of the total votes and won by a margin of 400 votes. Find the total number of voters?
Ans

1. 6,000
2. 3,600
3. 10,000
4. 3,500
Q. 21 Study the given pie-chart and answer the question that follows.

The pie-chart shows the expenditure by a family on different heads.


The angle formed by the sector representing education at the centre of the circle is:
Ans
$\times 1.45^{\circ}$

- $2.54^{\circ}$
$\times 3.67^{\circ}$
$\times 4.60^{\circ}$
Q. 22 Two angles of a triangle are equal and the third angle measures $78^{\circ}$. What is the measure of each of the unknown angles?
Ans
$\times 1.50^{\circ}$

2. $51^{\circ}$
$\times 3.49^{\circ}$
3. $52^{\circ}$
Q. 23 What is the present value of Rs.10,000 received in 2 years, if the interest rate is $\mathbf{1 2 \%}$ per year discounted semi-annually?
Ans
X 1. Rs. $7,020.94$
$\times$ 2. Rs. $7,920.90$

- 3. Rs.7,920.94

X 4. Rs. $7,900.94$
Q. 24 A conical vessel (solid) is made of iron. Its base radius is 7 cm and height is 15 cm . If the weight of the iron per cubic centimetre is 15 g , what is the weight of the vessel?
Ans
X 1.13 .55 kg
X 2.12 .55 kg
X 3.14 .55 kg

- 4.11 .55 kg
Q. 25 If $p+q=6$ and $p q=4$, then what is the value of $3\left(p^{3}+q^{3}\right)$ ?

Ans
$\times 1.512$
2. 144
3. 288
4. 432

Section : English Comprehension
Q. 1 Select the most appropriate synonym of the underlined word in the given sentence.

Try to be frugal with your hard-earned money.
Ans
X 1. Imprudent
2. Economical

X 3. Negligent
4. Honest
Q. 2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.lt is considered the biggest carnival event in the world.
B.Rio carnival is celebrated every year before lent.
C.A typical Rio carnival is filled with floats, revelers and adornments from numerous

Samba schools in Rio.
D.Every school is specially ordered to follow their parade entries.

Ans

1. BACD

X 2. ABDC
$\times 3$. BCDA
4. ACDB
Q. 3 Select the INCORRECTLY spelt word.

Ans

1. Laproscopy
2. Generate
3. Intermittent
4. Guise
Q. 4 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

A book market / was been operated by some readers / in the street when / they reached there.

Ans
$X$ 1. they reached there.
X 2. A book market
3. was been operated by some readers

X 4. in the street when
Q. 5 Select the most appropriate collocating word to fill in the blank.

The girl has $\qquad$ chances winning the match.
Ans
X 1. bountiful
2. high

X 3. light
$\times 4$. hefty
Q. 6 Select the most appropriate synonym of the underlined word.

No one was prepared for the environmental calamity that hit the town in the middle of the night.
Ans
X 1. Damage
2. Catastrophe
$X$ 3. Degradation
X4. Stress
Q. 7 Select the option that can be used as a one-word substitute for the given group of words.

Something which is worth believing
Ans
X1. Spurious
X 2. Expedient
3. Credible
4. Impending
Q. 8 Select the option that expresses the given sentence in passive voice.
somebody is following us.
Ans
$X 1$. Somebody had been following us.
2. Somebody is following us.
3. We have been following by somebody.
4. We're being followed by somebody.
Q. 9 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. The division was usually based on temperature, which allows for different vegetation growth.
Q. Köppen's map used different colors and shades to represent the different climate zones of the world.
R. Wladimir Köppen developed a climate classification system at the end of the 19th century.
S. The system divides the world into five climate zones.

Ans

1. RSPQ
2. SPQR
3. QPSR
4. RPQS
Q. 10 Select the most appropriate meaning of the given idiom.

Fair-weather friends
Ans

1. A person who is friends with you during the night
2. A person who is friends with you every day
3. A person whose friendship cannot be relied on in times
4. A person who is friends with you in difficult times
Q. 11 Select the option that expresses the given sentence in passive voice.

The child broke many toys in the shop. He even threw the paintings.
Ans $\quad$ 1. Many toys in the shop have been broken by the child. Even the paintings were thrown by him.
X 2. Many toys in the shop were broken by the child. Even the paintings have been thrown by him.
3. Many toys in the shop were broken by the child. Even the paintings were thrown by
him.
X 4. Many toys in the shop were broken by the child. He has even thrown the paintings.
Q. 12 Select the sentence that uses the idiom correctly.

Ans

1. Ranita was not selected for the job as she got cold feet.

X 2. Walking bare feet on grass gave him cold feet.
X 3. After too much cycling Arun got cold feet.
X 4. One can swim easily with cold feet.
Q. 13 Select the correct direct form of the given sentence. The doctor said that they had performed their bit.
Ans
X 1. The doctor said, "We performed our bit."
X 2. The doctor said, "We are performing our bit."
3. The doctor said, "We have performed our bit."

X 4. The doctor says, "We had performed our bit."
Q. 14 Select the most appropriate synonym of the given word.

Demolish
Ans
X 1. Create
X 2. Fabricate

- 3. Ruin

4. Shape
Q. 15 Select the most appropriate ANTONYM of the given word.

Abundant
Ans

1. Minimal

X 2. Aplenty
X 3. Plentiful
4. Fertile
Q. 16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Children listens to people / speaking around them / for a long time before / they begin to speak.
Ans

1. Children listens to people
2. speaking around them
3. they begin to speak
4. for a long time before
Q. 17 Rearrange the parts of the sentence in correct order.

The issue of
P. compulsory vaccination is difficult
Q. multiple interests all protected by human
R. because the governments need to consider
S. rights law and strike a fair balance between them

Ans

1. PRQS
2. PQRS
3. RSPQ
4. QSPR
Q. 18 Select the correct spelling of the underlined word from the following options.

Handover that peace of paper to me so that I can evaluate the authenticity of his amorous claims.

Ans
$\times 1$ peice
2. peices
3. pieces
4. piece
Q. 19 Select the most appropriate option to fill in the blank.

The crowing witch released a $\qquad$ cackle as she turned the boy into a beast.
Ans
X 1. gentle
X 2. low
3. Ioud
4. soft
Q. 20 Rearrange the parts of the sentence in correct order. We looked for
P. strong relationships at locations in the
Q. genome that are not well studied in
R. apple and looked for which compounds we
$S$. could identify and which had nutritional value
Ans $\times 1$. QSRP
X 2. QRPS
X 3.SPQR
4. PQRS

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swaminathan had a table on which all his things, his coat, cap, slate, ink-bottle, and books, were thrown in a confused (1) $\qquad$ He sat on his stool and shut his eyes to (2) $\qquad$ in

Profit and Loss; then there was English - he had to copy down a page from his English lesson and write dictionary meanings of (4) $\qquad$ words; and then there was Geography. And only two hours before him to do all this heap of work and get (5) $\qquad$ for school.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. heap
2. deal
3. order
4. load

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swaminathan had a table on which all his things, his coat, cap, slate, ink-bottle, and books, were thrown in a confused (1) $\qquad$ He sat on his stool and shut his eyes to (2) $\qquad$ what work he had for the day: first of course there was Arithmetic - those five (3) $\qquad$ in
Profit and Loss; then there was English - he had to copy down a page from his English lesson and write dictionary meanings of (4) $\qquad$ words; and then there was Geography And only two hours before him to do all this heap of work and get (5) $\qquad$ for school.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
$\times 1$ guess
2. recollect
$\times$ 3. imagine
X 4. estimate

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swaminathan had a table on which all his things, his coat, cap, slate, ink-bottle, and books, were thrown in a confused (1) $\qquad$ He sat on his stool and shut his eyes to (2) $\qquad$ in
what work he had for the day: first of course there was Arithmetic - those five (3) $\qquad$
Profit and Loss; then there was English - he had to copy down a page from his English
lesson and write dictionary meanings of (4) $\qquad$ words; and then there was Geography.
And only two hours before him to do all this heap of work and get (5) $\qquad$ for school.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. disputes
2. puzzles
$X$ 3. debates
X4. conditions

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swaminathan had a table on which all his things, his coat, cap, slate, ink-bottle, and books,
were thrown in a confused (1) $\qquad$ He sat on his stool and shut his eyes to (2) $\qquad$ in
what work he had for the day: first of course there was Arithmetic - those five (3) $\qquad$
Profit and Loss; then there was English - he had to copy down a page from his English
lesson and write dictionary meanings of (4) $\qquad$ words; and then there was Geography.
And only two hours before him to do all this heap of work and get (5) $\qquad$ for school.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $\times 1$. rigid
X 2. awkward
3. difficult

X 4. visible

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Swaminathan had a table on which all his things, his coat, cap, slate, ink-bottle, and books,
were thrown in a confused (1) $\qquad$ He sat on his stool and shut his eyes to (2) $\qquad$ in

Profit and Loss; then there was English - he had to copy down a page from his English lesson and write dictionary meanings of (4) $\qquad$ words; and then there was Geography. And only two hours before him to do all this heap of work and get (5) $\qquad$ for school.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. alert
$\times 2$. fit
3. ready
$\times 4$. fixed

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ Green Park |
| Exam Date | 12/12/2022 |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some spices are medicines.
All medicines are chemicals.
No chemical is cheap.
Conclusions:
I. Some medicines are cheap.
II. Some chemicals are spices.
III. No medicine is cheap.

Ans $\times 1$. Only conclusions I and III follow.
2. Only conclusions II and III follow.

X 3. Only conclusions I and II follow.
X 4. All conclusions follow.
Q. 2 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
50 * 25 * 10 * 2 * 175
Ans
1.,$+ \div, \times,=$
2. $-, x, \div,=$
3. $-, x,+,=$
4.,$+ \times, \div=$
Q. 3 If $R \div S$ means that $R$ is the mother of $S, R \times S$ means that $R$ is the father of $S, R-S$ means that $R$ is the sister of $S$, then which of the following expression shows that $P$ is the father of $\mathbf{R}$ ?

Ans
$X 1 . P \times Q \div R$
2. $Q \times P-R$
3. $R \times Q-P$
4. $P \times Q-R$
Q. 4 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$10 \times 11+19-323 \div 3=50$
Ans
$\times 1.10$ and $19,-$ and +
2. 3 and 19, - and $\times$

X 3.10 and 11 , and $\div$
X4. 10 and $323,+$ and $\div$
Q. 5 In a certain code language, 'CAKES' is written as 'FXNBV' and 'ABUSE' is written as 'DYXPH'. How will 'BARKS' be written in that language?
Ans $\times 1$. EXVHU
X 2. EXUIU
X 3. EXUIV
4. EXUHV
Q. 6 What was the day of the week on 26th November 1994 ?

Ans
X 1. Friday
X 2. Wednesday
3. Saturday
< 4. Thursday
Q. 7 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. COMB, GIUR, KCCH, OWKX, ?
Ans
X 1. SRQM
X 2. MNQR
3. SQSN

X 4. SMRQ
Q. 8 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits.)
$(12,313,13)$
$(11,185,8)$
Ans
$\times 1 .(12,158,12)$
X 2. $(4,125,11)$
3. $(9,90,3)$
< 4. $(15,150,10)$
Q. 9 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(6,17,408)$
$(13,27,1404)$
Ans
X 1. $(9,27,245)$
X 2. $(17,28,952)$
X $3 .(5,82,1200)$
4. $(4,26,416)$
Q. 10 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 2 '.


## Figure 1

Figure 2

## Figure 3

Ans
$\times 1.6$

- 2.5
$\times 3.4$
$\times 4.3$
Q. 11 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All W are L.
II. All $L$ are M.

Conclusions:
I. No $L$ is W .
II. No M is L.
III. No M is W.

Ans

1. Only conclusion II follows
2. Only conclusion I follows
$\times 3$. All conclusion follows
3. Neither conclusion follows
Q. 12 Select the option figure which is embedded in the given figure (rotation is NOT allowed).


Ans
$\times 1$

$\times 2$

$\times 3$


- 4. 


Q. 13 Which figure should replace the question mark (?) if the series were to be continued?


Ans

$\times 1$| $P$ | $\triangle$ | $N$ | $O$ |
| :--- | :--- | :--- | :--- |
| $K$ | $F$ | $I$ | $C$ |
| $\uparrow$ | $\Delta$ | $D$ | $Z$ |

$\times 2 . \begin{array}{cccc}N & \triangle & P & O \\ I & F & K & C \\ A & D & Z & \uparrow\end{array}$

X3. | $O$ | $P$ | $\triangle$ | $N$ |
| :--- | :--- | :--- | :--- |
| $I$ | $C$ | $K$ | $F$ |
| $\mathcal{A}$ | $D$ | $Z$ | $\uparrow$ |

24. | $N$ | $\triangle$ | $P$ | $O$ |
| :--- | :--- | :--- | :--- |
| $I$ | $C$ | $K$ | $F$ |
| $\uparrow$ | $A$ | $D$ | $Z$ |

Q. 14 Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the one that is different.
Ans
X 1. LJI
2. GDA

X 3. NLK
X 4.TRQ
Q. 15 What should come in place of the question mark (?) to complete the following letter cluster series?
RD, JF, DJ, ZP, ?
Ans
X 1. XY
X 2. YY
3. XX

X4.WX
Q. 16 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
STABLE : AEQRZJ :: TARGET : AERPER :: VISUAL : ?
Ans

1. IUATQJ
2. UATWJQ
3. HATQUI

X 4. TAUIQJ
Q. 17 By interchanging the given two signs and numbers which of the following equation will be not correct?
$\times$ and +, 7 and 4
I. $7 \times 8+4-6 \div 3=57$
II. $4 \times 8-9 \div 3+7=3$

Ans
$\times 1$. Only II
2. Only I

X 3. Neither I nor II
4. Both I and II
Q. 18 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

$\times 3$.

$\times 4$.

Q. 19 In a certain code language, 'ENGINE' is written as 'ENIGNE' and 'TRAIN' is written as 'NIART'. How will 'LEVEL' be written in that language?
Ans
X 1. LEELV
2. LEVEL

X 3. LeEVL
X 4. LELEV
Q. 20 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1. $(600-120-24)$

2. $(400-80-14)$
3. $(300-60-12)$
4. $(500-100-20)$
Q. 21 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
8:96:: ? : 54 :: 12 : 216
Ans
5. 8
6. 6
7. 10
4.4
Q. 22 A \& $B$ means ' $A$ is the son of $B$ '

A \# B means ' $A$ is the sister of $B$ '
$A @ B$ means ' $A$ is the brother of $B$ '
$A \% B$ means ' $A$ is the father of $B$ '
$A-B$ means ' $A$ is the daughter of $B$ '
$A$ * $B$ means ' $A$ is the wife of $B$ '
If C \# D @ $E \% Z \& L \# M-N$ * $P$, then how is $L$ related to $P$ ?
Ans

1. Wife
2. Daughter
3. Daughter-in-law
4. Sister
Q. 23 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants / vowels in the word.)
Panel : Jurors :: Portfolio : ?
Ans
X 1. Trustees
5. Securities
6. Administration
7. Companies

Q． 24 Which number will replace the question mark（？）in the following series？
1，4，13，40，？， 364
Ans $\times 1.132$
2． 121
3． 120
4． 124

Q． 25 Select the correct mirror image of the given combination when the mirror is placed at＇PQ＇as shown below．
historical $\mid$
Ans
$\times$ JAJЯIOTZIH
²JフІЯOTટIH
」A」ЭЯ8T2IH
＊」AJつЯOTટIH

## Section：General Awareness

Q． 1 Which of the following statement is correct？
I．The biggest state of India in terms of area is Uttar Pradesh．
II．Rajasthan is the state of India which have highest population among all other states of India．
Ans
1．Only I
2．Neither I nor II
3．Only II
4．Both I and II

Q． 2 Who among the following is Telangana＇s first Sangeet Natak Akademi Award winner？
Ans
1．Padmaja Reddy
2．Yamini Reddy
3．Deepa Sashindran
4．Shantala Shivalingappa
Q. 3 Who among the following became the first Asian to win the award for best sound for the documentary 'India's Daughter' at the coveted Motion Picture Sound Editors' 63rd annual Golden Reel Awards?

Ans
X 1. Justin Jose
2. Resul Pookutty

X 3. P.M.Satheesh
4. Boby John
Q. 4 Which of the following is known as 'Plaster of Paris'?

Ans
$X$ 1. $2 \mathrm{CaSO}_{4} \cdot 2 \mathrm{H}_{2} \mathrm{O}$
$\times$ 2. $2 \mathrm{MgSO}_{4} \cdot \mathrm{H}_{2} \mathrm{O}$
$X$ 3. $2 \mathrm{MgSO}_{4} .7 \mathrm{H}_{2} \mathrm{O}$

- 4. $2 \mathrm{CaSO}_{4} \cdot \mathrm{H}_{2} \mathrm{O}$
Q. 5 $\qquad$ is the centre for the Indian Institution of Soil Science.
Ans
X 1. Porbandar

2. Bhopal

X 3. Vishakhapatnam
X 4. Bhubaneswar
Q. 6 In 1873, the Satyashodhak Samaj was established in $\qquad$ .
Ans
X 1. Bihar Province
X 2. Madras Presidency
3. Bombay Presidency

X 4. Punjab Province
Q. 7 month.

Ans
X 1. savings bank deposits
X 2. reinvestment deposits
X 3. fixed deposits
4. recurring deposits
Q. 8 When a magnesium ribbon is burnt in oxygen, it gets converted to $\qquad$ .
Ans $\quad$ 1. magnesium peroxide
$X$ 2. magnesium hydroxide
X 3. magnesium carbonate
2. magnesium oxide
Q. 9 Which of the following rocks may contain fossils of plants, animals and other microorganisms that once lived on them?
Ans
X 1. Metamorphic rocks
X 2. Intrusive igneous rocks
3. Sedimentary rocks

X 4. Extrusive igneous rocks
Q. 10 Bade Ghulam Ali Khan was a prominent singer of the $\qquad$ gharana.

Ans
X 1. Rampur Sahaswan
2. Patiala

X 3. Benaras
X 4. Bhendi Bazaar
Q. 11 Union Government has launched the Eighth Edition of Swachh Survekshan SS-2023 under Swachh Bharat Mission Urban 2.0. It is curated towards achieving circularity in

Ans
X 1. industrial management
2. waste management
3. roads management
4. rainwater management
Q. 12 Which of the following is NOT a way in which a batsman can get out in a game of cricket?
Ans
X 1. Bowled
2. Leg bye
$\times 3$. Stumped
4. Leg before wicket
Q. 13 Ziyauddin Barani wrote his chronicle first in 1356 and another version $\qquad$ years later.
Ans $X$ 1. three
2. eight
3. two
4. five
Q. 14 If the State government dissolves the Panchayati Raj Institutions before the end of their five-year term, fresh elections should ordinarily be held within $\qquad$ .

Ans
$X$ 1. one month
2. six months
3. one year
4. three months
Q. 15 Which of the following categories did Ram Sahay Panday receive the Padma Shri 2022
in?
Ans $\quad$ 1. Carnatic Music
2. Distinguished service in the field of art

X 3. Instrumentalist
4. Singing
Q. 16 Which of the following Articles states that a State shall not discriminate against any citizen on grounds only of religion, race, caste, sex, place of birth or any of them?
Ans

1. Article 15
2. Article 59
3. Article 25
4. Article 40
Q. 17 The Paramhans Mandali was established to work for the abolition of caste in $\qquad$ -.
Ans $\times 1.1830$
5. 1840
$\times 3.1820$
(4. 1850
Q. 18 What is the suffix for -OH group according to IUPAC?

Ans

1. -ols

X 2. -ene
X 3. -one
X 4.-anes
Q. 19 What is the duration of the lunch interval in a cricket test match?

Ans
$\times 1.25$ minutes
$\times 2.35$ minutes
3. 30 minutes
4. 40 minutes
Q. 20 In 1653, which French scientist observed that if some pressure is applied to any point of an incompressible fluid, the same pressure is transmitted to all points of the fluid and to the walls of the vessel?

Ans
X 1. Daniel Bernoulli
2. Evangelista Torricelli
3. Blaise Pascal
4. Eugene Bourdon
Q. 21 Identify a marine alga that is used as food.

Ans
X 1. Ulothrix
2. Sargassum
3. Spirogyra
4. Volvox
Q. 22 Himachal Pradesh Chief Minister has launched a 'Naari Ko Naman' scheme that will allow women passengers in the state to pay only $\qquad$ of the fare for their travel within the state.
Ans
X $1.40 \%$
X 2. 20\%
X $3.30 \%$
4. 50\%
Q. 23 What was the duration of Rolling Plan in India?

Ans
X 1.1975 to 1977
X 2. 1977 to 1979
X 3.1976 to 1978
4. 1978 to 1980
Q. 24 Who among the following was the founder of the Kanva dynasty?

Ans
X 1. Narayana
2. Susharman
3. Vasudeva
4. Devabhuti
Q. 25 Who has been named as the new chief minister of Tripura in May 2022?

Ans
X 1. Rajiv Rajan
2. Sangeeta Singh
3. Mahesh Verma
4. Manik Saha

Section : Quantitative Aptitude
Q. 1 The HCF of three numbers 98,175 and 210 will be:

Ans
X 1.6
$\times 2.3$
$\times 3.5$
4.7
Q. 2 If two circles of radii 18 cm and 8 cm touch externally, then the length of a direct common tangent is:

Ans

1. 24 cm
2. 14 cm
3. 16 cm
4. 12 cm
Q. 3 The table given below shows the number of tractor sold by two companies.

|  | Company |  |
| :---: | :---: | :---: |
| Tractor | P | Q |
| T1 | 60 | 90 |
| T2 | 40 | 50 |
| T3 | 80 | 100 |
| T4 | 90 | 120 |
| T5 | 110 | 150 |

Number of tractor T5 sold by both companies is how much percent more than the number of tractor T2 sold by both companies?
Ans
X 1. 162.66 percent
X 2. 172.44 percent
X 3. 266.32 percent
4. 188.88 percent
Q. 4 Raghav purchased a shirt at Rs.1,500 and marked up the price of the shirt by $40 \%$.

What is the discount percentage he has to offer in order to get a profit of Rs.75?
Ans

1. $25 \%$
2. $15 \%$
3. $75 \%$
4. $50 \%$
Q. 5 What is the ASA congruence rule of triangles, where A and S represents angle and side of triangle respectively?
Ans $\quad$ 1. Two triangles are said to be congruent if all three sides of both the triangles are equal.
5. Two triangles are said to be congruent if 2 angles and the included side of one
triangle are equal to 2 angles and the included side of the other triangle.
X 3. Two triangles are said to be congruent if 2 sides and the included angle of one triangle are equal to 2 sides and the included angle of the other triangle.
$\times 4$. Two triangles are said to be congruent if any pair of 2 angles and any 1 pair of sides of both the triangles are equal.
Q. 6 If the seven-digit number 52A6B7C is divisible by 33 , and $A, B, C$ are primes, then the maximum value of $2 A+3 B+C$ is:

Ans
$\times 1.32$
2. 23
3. 27
4. 34
Q. 7 The diameters of two circles are 12 cm and 20 cm , respectively and the distance between their centres is 16 cm . Find the number of common tangents to the circles.
Ans
$\times 1.2$
2. 3
3.1
4.4
Q. 8 If $\tan 3 \theta \cdot \tan 7 \theta=1$, where $7 \theta$ is an acute angle, then find the value of $\cot 15 \theta$.

Ans

1. 1
2. -1
3. $-\sqrt{3}$
4. $\sqrt{3}$
Q. 9 The table given below shows the number of scissor sold by five shopkeepers.

| Shopkeepers | Scissors |
| :---: | :---: |
| P | 30 |
| Q | 50 |
| R | 45 |
| S | 25 |
| T | 70 |

What are the ratio of number of scissor sold by $R$ to the sold by $S$ ?
Ans
$\times 1.5: 8$
X2.8:3
2.9:5
$\times 4.5: 9$
Q. 10 A watch is sold at a profit of $25 \%$. Had it been sold for Rs. 120 less then, there would have been a less then of $15 \%$. What is the cost price in rupees?

Ans
× 1.Rs. 400
X 2. Rs. 350
X 3.Rs. 200
2. Rs. 300
Q. 11 Some students went on a field trip. At a speed of $6 \mathrm{~km} / \mathrm{h}$, they travelled by bikes for 2 hours; then at a speed of $2 \mathrm{~km} / \mathrm{h}$, they walked for another hour; then they took rest for an hour and had lunch for half an hour; then at a speed of $1 \mathrm{~m} / \mathrm{s}$, they walked for an
hour to visit a garden; and finally at a speed $4 \mathrm{~km} / \mathrm{h}$, they returned home in 3 hours.
Their average speed, in km/h, (rounded off to two places of decimal) is:
Ans

1. 3.48

X 2.129 .23
3. 0.28
4. 251.62
Q. 12 If the side of an equilateral triangle is 16 cm , then what is its area?

Ans
X1. $81 \sqrt{3} \mathrm{~cm}^{2}$
$\times 2.48 \sqrt{3} \mathrm{~cm}^{2}$
$\times$ 3. $32 \sqrt{3} \mathrm{~cm}^{2}$
4. $64 \sqrt{3} \mathrm{~cm}^{2}$
Q. 13 In a proportion, the $1^{\text {st }}, 2^{\text {nd }}$ and $4^{\text {th }}$ terms are 51,68 and 108 , respectively. What is the 3rd term?
Ans
$\times 1.84$
$\times 2.83$
$\times 3.82$

- 4.81
Q. 14 Find the value of $\sec \theta-\tan \theta$, if $\sec \theta+\tan \theta=\sqrt{ } 5$.

Ans

1. 5
2. $5 \frac{1}{5}$
3. $\frac{\sqrt{5}}{5}$
4. $\sqrt{5}$
Q. 15

The production of ABC Ltd is as follows.

| Product | 2021 | 2022 |
| :--- | ---: | ---: |
| A | 120 | 150 |
| B | 160 | 200 |
| C | 250 | 300 |
| D | 60 | 90 |
| E | 30 | 50 |
| F | 110 | 132 |

For which product did the company record the highest growth?
Ans
$\times 1$. F
2.E
$\times 3$.
$\times 4$. в
Q. 16 A person deposited $₹ 15,600$ in a fixed deposit at $10 \%$ per annum simple interest. After every second year he adds his interest earned to the principal. The interest at the end of 4 years is:

Ans
X 1. ₹6,655
2. ₹ 6,864

X 3. ₹ 3,975
X 4. ₹ 3,744
Q. 17 If $p=8.15, q=9.06$ and $r=-17.21$, then the value of $p^{3}+q^{3}+r^{3}-3 p q r$ is:

Ans $\times 1 .-3.81$
X 2. -5.62
3. 4.75
4. 0
Q. 18 Out of an earning of Rs.720, Pankaj spends $65 \%$. How much does he save?

Ans
X 1.Rs. 250
2. Rs. 252
3. Rs. 253
4. Rs. 251
Q. 19 Ram starts from point $A$ at 8 a.m. and reaches point $B$ at 2 p.m. on the same day. On the same day, Raju starts from point $B$ at 8 a.m. and reaches point $A$ at 6 p.m. on the same day. Both points $A$ and $B$ are separated by only a straight line track. At what time they both meet?
Ans

1. 11:45 a.m.

X 2. 9:42 a.m
X 3. 10:42 a m.
4. 12:42 p.m.
Q. 20 A is $40 \%$ more efficient than $B$. How much time will both, working together, take to finish the work, which $B$ alone can finish in 36 days?
Ans

1. 18 days
2. $9 \frac{1}{3}$ days
3. 15 days
4. $11 \frac{2}{3}$ days
Q. 21 The value of $\frac{1.6 \times 1.6 \times 1.6-0.6 \times 0.6 \times 0.6}{1.6 \times 1.6+1.6 \times 0.6+0.6 \times 0.6}$ is:

Ans
$\times 1.0$
2. 1
3. -1
4.2
Q. 22 Area of the floor of a cubical room is $64 \mathrm{~m}^{2}$. The length of the longest rod that can be kept in the room is:

Ans

1. $16 \sqrt{3} \mathrm{~m}$
2. $4 \sqrt{3} \mathrm{~m}$
3. $12 \sqrt{3} \mathrm{~m}$
-4. $8 \sqrt{3} \mathrm{~m}$
Q. 23 If $2 \sin \theta+2 \sin ^{2} \theta=2$, then the value of $2 \cos ^{4} \theta+2 \cos ^{2} \theta$ is:

Ans
$\times 1.4$

- 2.2
$\times 3.1$
$\times 4.0$
Q. 24

If $x^{4}+\frac{16}{x^{4}}=15617, x>0$, then find the value of $x+\frac{2}{x}$.
Ans
$x$ 1. $\sqrt{121}$
2. $\sqrt{129}$

X 3. $\sqrt{123}$
$\times 4 . \sqrt{127}$
Q. 25 The pie chart given below shows the marks obtained by student $Q$ in 6 different subjects. The total marks obtained by the student in these subjects is 700 . Marks obtained in a particular subject is shown as a percent of total marks obtained in all these 6 subjects.
P


What is total marks obtained in $Q, S$ and $U$ ?
Ans
$\times 1.312$
$\times 2.306$
$\times 3.294$

- 4.308

[^8]Q. 1 Select the most appropriate ANTONYM of the given word.

Feud
Ans

1. Harmony
2. Distrust
3. Unfriendliness
4. Destruct
Q. 2 Select the option that expresses the given sentence in active voice.

I don't like being seen in tears by people.
Ans $\times 1$. I don't like people had been seeing me in tears.
2. I don't like people seeing me in tears.

X 3. I don't like people to see me in tears.
X 4. I don't like myself to be seen in tears.
Q. 3 Select the most appropriate meaning of the given idiom.

Eat humble pie
Ans

1. To apologise humbly

X 2. To live in penury
X 3. To live a life of humility
$\times 4$. To enjoy life to the fullest
Q. 4 Select the INCORRECTLY spelt word in the following sentence. It is a deeply regrettable fact that deforestation has had a substantial consequenses on the environment.
Ans

1. deforestation
2. substantial

X 3. regrettable
, 4. consequenses
Q. 5 Select the sentence with the appropriate use of preposition.

Ans
X 1. Are you interested along with modern art?
X 2. Are you interested into modern art?
3. Are you interested with modern art?
4. Are you interested in modern art?
Q. 6 Select the option that can be used as a one-word substitute for the underlined group of words.

While I was travelling in Europe, I met a man who drew maps.
Ans

1. Cartographer
2. Geographer
3. Arbitrator
4. Anthropologist
Q. 7 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Scores given by the members are to be consolidated and sent in the head office immediately.
Ans
X 1. No substitution
2. after the head office
3. at the head office
4. to the head office
Q. 8 Select the most appropriate ANTONYM of the given word. Abominable
Ans
X 1. Worthy
X 2. Delectable
2. Admirable

X 4. Detestable
Q. 9 Select the sentences that contains no spelling errors.

Ans
X 1. I saw the dress catalouge pieces of Asha's corchiture collection.
X 2. I saw the dress catalougue pieces of Asha's couture collection.
X 3. I saw the dress catalougue pieces of Asha's corchiture collection.
4. I saw the dress catalogue pieces of Asha's couture collection.
Q. 10 Select the most appropriate meaning of the underlined idiom in the given sentence.

After the government interventions, the enrolment and retention of female students have increased by leaps and bounds.
Ans
X 1. Systematically
2. Swiftly

X 3. Intermittently
X 4. Gradually
Q. 11 Select the most appropriate option to fill in the blank and complete the collocation.

I had a nice $\qquad$ on my birthday with all my friends and relatives.
Ans

1. opportunity

X 2. day
X 3. experience

- 4. time
Q. 12 Select the correct passive voice form for the given sentence.

My brother likes cricket.
Ans $\times 1$. Cricket was like by my brother.
2. Cricket is like by my brother.
3. Cricket is liked by my brother.
4. Cricket was liked by my brother.
Q. 13 Select the correct indirect form of the given sentence. He says to Gayatri, "You are writing an apology to the warden."

Ans
X 1. He told Gayatri that she is writing an apology to the warden.
2. He tells Gayatri that she is writing an apology to the warden.
3. He says to Gayatri that she was writing an apology to the warden.
4. He tells Gayatri that she was writing an apology to the warden.
Q. 14 Select the most appropriate option that can substitute the underlined segment in the given sentence.

You must aware of friends who speak against you.
Ans
X 1. caution of
2. beware of

X 3. scarce of
X 4. careful of
Q. 15 Select the most appropriate meaning of the underlined word in a sentence.

The good weather has been a boon for many businesses located near the beach.
Ans
X 1. luck
2. Signal
3. fortune
4. beneficial
Q. 16 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. While India is home to 75 per cent of tigers in the world, the Global Tiger Day - as it is also known - sees awareness events organised in the country, as well as neighbouring Bangladesh and Nepal.
B. Its primary objective is to preserve the natural habitat of the tiger.
C. International Tiger Day was initiated in 2010, at the Saint Petersburg Tiger Summit.
D. This annual event, observed on 29 July, aims to create awareness on tiger
conservation.
Ans
X 1. DCAB
2. BADC
3. CDBA
4. CDAB
Q. 17 Select the option that can be used as a one-word substitute for the given group of words.

One who runs away from law
Ans

1. Fatalist
2. Convict
3. Fugitive
4. Lunatic
Q. 18 Select the option that can be used as a one-word substitute for the given group of words.
Words that begin with the same letter, syllable or sound
Ans
X 1. Metaphor
$X$ 2. Pun
X 3. Hyperbole
5. Alliteration
Q. 19 Fill in the blank with the correct collocation.

A gaggle of journalists sit in a/an $\qquad$ foyer waiting impatiently.
Ans
X 1. attic
2. hotel
$X$ 3. ranch
X 4. croft
Q. 20 Select the most appropriate synonym of the underlined word.

Although Edward had noble blood, his ignoble qualities made him incapable of taking over the kingdom.

Ans
X 1. Salient
$X$ 2. Strange
3. Ostentatious
4. Unworthy

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

At most of the local dhabas and fast food joints, poor hygienic conditions (1) $\qquad$ . The
(2) $\qquad$ occurs due to poor quality packaging material or (3) $\qquad$ storage
conditions. Food cooked may not be washed or cleaned properly. It is low in (4) $\qquad$ _,
rich in oil content especially trans fats which make one (5) $\qquad$ , lousy and dull.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans

1. prevail
2. sustain
3. entail
4. assail

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

At most of the local dhabas and fast food joints, poor hygienic conditions (1) $\qquad$ . The
(2) $\qquad$ occurs due to poor quality packaging material or (3) $\qquad$ storage conditions. Food cooked may not be washed or cleaned properly. It is low in (4) $\qquad$ rich in oil content especially trans fats which make one (5) $\qquad$ lousy and dull.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

- 1. contamination

2. perfection
3. purification
4. concentration

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

At most of the local dhabas and fast food joints, poor hygienic conditions (1) $\qquad$ . The
(2) $\qquad$ occurs due to poor quality packaging material or (3) $\qquad$ storage conditions. Food cooked may not be washed or cleaned properly. It is low in (4) , lousy and dull. rich in oil content especially trans fats which make one (5) $\qquad$
SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans $\times 1$. sterile
2. unhygienic

X 3. neat
$X 4$. energetic

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

At most of the local dhabas and fast food joints, poor hygienic conditions (1) $\qquad$ The
(2) $\qquad$ occurs due to poor quality packaging material or (3) $\qquad$ storage
conditions. Food cooked may not be washed or cleaned properly. It is low in (4) $\qquad$ ,
rich in oil content especially trans fats which make one (5) $\qquad$ , lousy and dull.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. condition
X 2. proportion

- 3. nutrition

X 4. production

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

At most of the local dhabas and fast food joints, poor hygienic conditions (1) $\qquad$ The (2) occurs due to poor quality packaging material or (3) $\qquad$ storage conditions. Food cooked may not be washed or cleaned properly. It is low in (4) $\qquad$ _, rich in oil content especially trans fats which make one (5) $\qquad$ , lousy and dull.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans $\times 1$.smart
X 2. skinny
3. obese

X 4. affluent

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ 2 Bhauti |
| Exam Date | 12/12/2022 |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
16 * 3 * 2 * 11 * 9 = 22
Ans
$\times 1 . \times \div+$
2. $\times \div-+$

X $3 . \div x++$
人4. $\div+x \div$

Question ID : 26433068596
Q. 2 By Interchanging the given two numbers which of the following equation will be not correct?
7 and 9
Ans $\quad \times 1.8 \times 3 \div 6+9-7=2$
2. $7+6-9 \times 4 \div 2=2$

X $3.9+4 \times 3-7 \div 1=10$
$4.9 \times 3+4 \div 2-7=14$
Q. 3 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans
X 1. EUT
X 2. RHG

- 3. TRQ
$\times 4$. TFE
Q. 4 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
MHDM, MYLC, MPTS, MGBI, ?
Ans
X 1. MJXY

2. MNRS
3. MXJY
4. MXYJ
Q. 5 Select the option figure which is embedded in the given figure (rotation is NOT allowed).


Ans
$\times 1$.

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 6 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants / vowels in the word.)
Trembling : Fear :: Sigh : ?
Ans

1. Pain
2. Relief
3. Hope
4. Anger
Q. 7 By Interchanging the given two numbers which of the following equation will be not correct?
4 and 2
Ans
X1. $4 \times 3-8 \div 2+7=11$

- $2.8 \div 4 \times 2-6+9=18$

X $3.4-8 \times 3+2 \div 1=-18$
X $4.6 \times 4-8 \div 2+7=17$
Q. 8 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
Some benches are tables.
Some tables are chairs.
Some chairs are pencils.
Conclusions:
I. Some benches are chairs.
II. Some tables are pencils.
III. Some pencils are chairs.
IV. Some pencils are tables.

Ans
X 1. Only conclusions II and IV follow
2. Only conclusion III follows

X 3. Only conclusions I and II follows
X 4. None of the conclusions follow
Q. 9 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 6 '.


Figure 2

Figure 3

Ans
$\times 1.5$
2. 3
$\times 3.2$
$\times 4.1$
Q. 10 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Telescope : Distant Objects :: Microscope : ?
Ans
X 1. Big Objects
2. Tiny Objects
3. Very Large Objects
4. Heavy Objects
Q. 11 Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.


Ans

$\times 2$

$\times 3$.

$\times 4$.

Q. 12 In a certain code language, 'HAIRCAP' is written as 'IAHRPAC' and 'LEADMAN' is written as 'AELDNAM'. How will 'FACTFUL' be written in that language?

Ans

1. CAFTLUF
2. CAFTLFU
3. CATFLUF
4. CAFTULF
Q. 13 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
5. Amphibian
6. Ambiguous
7. Ambience
8. Amplify
9. Amorphous
10. Ambivalent
11. Ameliorate

Ans

1. $3,2,6,7,5,1,4$
2. 3, 2, 6, 7, 5, 4, 1
3. $3,2,4,6,7,5,1$
4. $3,2,6,5,7,1,4$
Q. 14 ' $A$ @ $B$ ' means ' $A$ is the husband of $B$ '.
' $A$ \& $B$ ' means ' $A$ is the father of $B$ '.
' $A$ \# $B$ ' means ' $B$ is the son of $A$ '.
If S @ T \# P @ Q \# R V , then how is T related to Q?
Ans $\times 1$. Husband
5. Mother
6. Mother-in-law
7. Sister
Q. 15 Which number will replace the question mark (?) in the following series?

5, 12, 26, ?, 110, 222
Ans

1. 52
2. 56
3. 54
4. 50
Q. 16 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. No tyre are white.
II. All grey are white.

Conclusions:
I. No white is tyre.
II. No tyre is grey.
III. Some white are not grey.

Ans $\quad \times 1$. Only conclusion I follows
X 2. Both conclusions I and III follows
3. Both conclusions I and II follows
4. Neither conclusion follows
Q. 17 Which letter cluster will replace the question mark (?) to complete the given series?
$A B C D, E B C D, ?, O B C D, U B C D$
Ans
X 1. JBCD
$\times 2$. LBCD
3. IBCD
$\times 4 . \mathrm{KBCD}$
Q. 18 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

Q. 19 In a certain code language, 'ICE' is coded as ' 20 ' and 'HOT' is coded as ' 46 '. How will 'POT' be coded in that language?

Ans

1. 54
$\times 2.58$
$\times 3.56$
$\times 4.55$
Q. 20 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
16:20:: 256 : ? :: 49 : 56
Ans
< 1.266
$\times 2.264$
$\times 3.278$
2. 272
Q. 21 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(2, 4, 20)
$(4,5,41)$
Ans
X 1. $(9,2,86)$
3. $(4,3,25)$

X $3 .(5,3,32)$
4. $(7,3,59)$
Q. 22 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(76,4,19)$
$(98,2,49)$
Ans
X $1 .(84,12,4)$
2. $(72,4,18)$
3. $(99,3,66)$
4. $(88,2,22)$
Q. 23 If $X \times Y$ means that $X$ is the mother of $Y, X-Y$ means that $X$ is the father of $Y, X \div Y$ means that $X$ is the sister of $Y$, then which of the following expression shows that $P$ is the paternal grandfather of $R$ ?
Ans
$X 1 . Q-P \times R$
X2. $\mathrm{P}-\mathrm{Q} \div \mathrm{R}$
2. $P-Q \times R$

X4. $\mathrm{P} \times \mathrm{Q}-\mathrm{R}$
Q. 24 Select a suitable figure from the answer figures which would replace the question mark (?).


Ans

2.

$\times 3$.

$\times 4$

Q. 25 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation.
Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X1.15-56
X 2.13-48

- $3.11-39$

X4.17-64

## Section : General Awareness

Q. 1 The principal lignite reserves are in Neyveli which is situated in $\qquad$ -.

Ans
X 1. Karnataka
X 2. Andhra Pradesh
3. Tamil Nadu

X 4. Kerala
Q. 2 Babur ruled over Delhi till $\qquad$ year.
Ans

1. 1530
$\times 2.1539$
$\times 3.1526$
$\times 4.1545$

| Question ID | 264330105431 |
| :---: | :---: |
| Status | Not Attempted and Marked For Review |
| osen Option | -- |

Q. 3 Which of these methods is used for conservation of land rescore?

Ans

1. Deforestation
2. Poaching
3. Land reclamation
4. Indiscriminate use of chemical pesticides
Q. 4 In which of the following Indian states is the "Hundred Drums Festival" observed?

Ans
X 1. Uttarakhand
2. Meghalaya

X 3. Himachal Pradesh
4. Punjab

| Question ID: | 26433064695 |
| ---: | :--- |
| Status : | Not Attempted and |
| Marked For Review |  |

Q. 5 In February 2022, the first night navigation mobile application for rivers was launched in $\qquad$ -.
Ans $\quad$ 1. West Bengal
2. Assam

X 3. Uttar Pradesh
4. Jharkhand
Q. 6 When the river approaches sea it breaks up into a number of distributaries, each distributary forms its own mouth. The collection of sediments from all the mouths forms $\qquad$ —.
Ans

1. meanders
2. floodplains
3. delta
4. levees
Q. 7 Which Fundamental Right was deleted by The Constitution (Forty-fourth Amendment) Act, 1978?

Ans 1. Right to Property
2. Right to Freedom of Movement
3. Right to Education
4. Right to Constitutional Remedies
Q. 8 Most of the Chlorophyceae have one or more storage bodies called $\qquad$ located in the chloroplasts.
Ans
X 1 . Stomata
2. Carotenoids
3. Pyrenoids
4. Chlorophyll
Q. 9 The bill which provide for the trial of British or European person by Indians was

Ans

1. Hastings Bill
2. Dalhousie Bill
3. llbert Bill
4. George Bill
Q. 10 Which of the following cities became the capital of Bengal in 1704?

Ans
X 1. Howrah
2. Murshidabad
3. Kharagpur
4. Kolkata
Q. 11 Iron, iodine and zinc can be considered as which of the following?

Ans
X 1. Macronutrients
2. Micronutrients
$\times$ 3. Steroid hormone inducer
4. Non-essential nutrients
Q. 12 Who among the following is noted for playing the Flute?

Ans $\times 1$. Pandit Kumar Gandharva
2. Pandit Hariprasad Chaurasia
3. Pandit Ravishankar
4. Pandit Shivkumar Sharma
Q. 13 The GDP estimation method measuring the aggregate value of goods and services produced by the firms is called $\qquad$ -.
Ans

1. expenditure method
2. consumption method
3. income method
4. product method
Q. 14 The Choliya dance is performed in $\qquad$ .
Ans
X 1. Ladakh
5. Uttarakhand

X 3. Meghalaya
4. Tamil Nadu
Q. 15 Which of the following countries is NOT part of the three nations to host the 2023 FIBA Basketball World Cup?
Ans
X 1. Japan
X 2. Indonesia

- 3. Argentina

X4. Philippines
Q. 16 The 'Sorrow of Bengal' is $\qquad$ .
Ans
X 1. The Narmada
2. The Damodar

X 3. The Koshi
X 4. The Tapi
Q. 17 The first bullet train project in India aims to run a bullet train at 320 kmph along a highspeed rail (HSR) track between $\qquad$ -.
Ans
X 1. Jaipur and Mumbai
2. Ahmedabad and Mumbai

X 3. Delhi and Hyderabad
X 4. Kolkata and Chennai
Q. 18 What is the chemical formula of vinegar?

Ans
$\times 1 . \mathrm{HCOOH}$
2. $\mathrm{CH}_{3} \mathrm{COOH}$
3. $(\mathrm{COOH})_{2}$
4. $\mathrm{C}_{6} \mathrm{H}_{5} \mathrm{COOH}$
Q. 19 Which measuring instrument consists of a metal triangular frame supported on three legs, used to measure the radius of curvature of an object such as lenses and curved mirrors which are spherical in shape?
Ans
X 1. Viscometer
2. Spherometer

X 3. Verniercaliper
$\times 4$. Screw gauge
Q. 20 In cricket, if the umpire raises an index finger above the head it means $\qquad$ _.
Ans
X 1. dead ball
$X$ 2. wide ball
X 3. no ball
4. batsman is out
Q. 21 The duration of the Mesolithic period is from about $\qquad$ years ago to $\qquad$ years ago.
Ans
X 1.14000, 10000
X 2. 17000, 12000

- 3.12000, 10000

X4.10000, 7000
Q. 22 The $73^{\text {rd }}$ amendment deals with which of the following?

Ans
X 1. GST
X 2. Urban local government bodies
2. Panchayat Raj System
4. Anti-defection
Q. 23 In the Industrial Policy Resolution of 1948, which of the following was NOT the monopoly of the Central Government?
Ans

1. Iron and Steel
2. Atomic energy
3. Railway
4. Arms and ammunition
Q. 24 In July 2022, the government prohibited the import of which of the following in line with the Assisted Reproductive Technology (Regulation) Act, 2021 and The Surrogacy (Regulation) Act, 2021?
Ans
5. Human embryo
6. Women's egg
7. Stem cell
8. Kidney
Q. 25 Who among the following Kathak dancers were conferred with the Padma Shri Award, 2022?
Ans $\times$ 1. Manjari Chaturvedi and Rajendra Chaturvedi
9. Kamalini Asthana and Nalini Asthana

X 3. Sujata Mohapatra and Ratikant Mohapatra
X 4. Yamini Krishnamurthy and Smrithi Krishnamurthy

## Section : Quantitative Aptitude

Q. 1 The given table shows the number of new employees joined in different categories of employees in an organisation and also the number of employees from these categories who left the organisation every year since the foundation of the organisation in 2015. Study the table and answer the question that follows.

| Year | Business Analysts |  | Accountants |  | Sales Representatives |  | Peons |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Joined | Left | Joined | Left | Joined | Left | Joined | Left |
| 2015 | 80 | 0 | 35 | 0 | 50 | 0 | 73 | 0 |
| 2016 | 63 | 21 | 26 | 16 | 46 | 20 | 34 | 23 |
| 2017 | 78 | 28 | 15 | 5 | 38 | 15 | 48 | 29 |
| 2018 | 42 | 39 | 20 | 38 | 34 | 0 | 14 | 12 |
| 2019 | 67 | 44 | 14 | 24 | 22 | 30 | 21 | 30 |

During the years given, what is the difference between the total number of Business Analysts who joined the organisation and the total number of Sales Representatives who joined the organisation?

Ans

1. 142
2. 143
3. 141
4. 140
Q. 2 Aarif, Arun and Abraham can do a work in 12, 20 and 24 days, respectively. They all begin together. Aarif leaves the work 1 day, Arun 3 days and Abraham 4 days before its completion. In how many days is the work finished?

Ans

1. 8
2. 10
3. 11
4. 9
Q. 3 A conical vessel, whose internal radius is 20 cm and height is 27 cm , is full of water. If this water is poured into a cylindrical vessel with internal radius 15 cm , what will be the height to which the water rises in it?
Ans
5. 16 cm
6. 10 cm
7. 12 cm
8. 14 cm
Q. 4 The average age of six members of a family is 40 years. If the age of a guest is included, then the average age increases by $12.5 \%$.What is the age (in years) of the guest?
Ans
$\times 1.59$
X 2.65

- 3.75
$\times 4.69$
Q. 5 The following pie charts show the percentage of employees in each department and the percentage of males working in each department.


Total number of employees $=5100$


Total number of males $=2050$

Find the number of females working in the production department.
Ans

1. 36
$\times 2.40$
$\times 3.32$
2. 24
Q. 6 If $x=222, y=223$ and $z=224$, then find the value of $x^{3}+y^{3}+z^{3}-3 x y z$.

Ans

1. 2007
2. 2004
3. 2006
4. 2005
Q. 7 The bar graph given below shows the percentage distribution of the total production of six different types of cars by a car manufacturing company over 2 years.

Percentage of Six different types of Cars manufactured by a Company over Two Years


The total number of cars of type P, R and U manufactured in 2001 is:
Ans
X 1. 1,54,000
X 2. 1,76,000
$\times 3.2,00,000$
4. 2,64,000
Q. 8

If $\sec A=\frac{5}{4}$, then the value of $\frac{\tan A}{1+\tan ^{2} A}-\frac{\sin A}{\sec A}$ is:
Ans
$\times 1.2$
$\times 2.1$

- 3.0
$\times 4.3$
Q. 9 The following pie chart shows the population of 7 villages.


What is the different between the population of villages E and D, if the total population of all the villages together is 50,000 ?

Ans

1. 500
2. 400
3. 300
4. 600
Q. 10 If $\alpha, \beta$ are the roots of $6 x^{2}+13 x+7=0$, then the equation whose roots are $\alpha^{2}, \beta^{2}$ is:

Ans
X 1. $36 x^{2}-87 x+49=0$
2. $36 x^{2}-85 x+49=0$

X 3. $36 x^{2}-85 x-49=0$
X4. $36 x^{2}+87 x-49=0$
Q. $11 X$ is directly proportional to the square of $Y$. When $X$ is 12 , then $Y$ is 2 . Find the value of $X$ when $Y$ is 3 .

Ans
$\times 1.30$

- 2.9

3. 27
4. 18
Q. 12 A policeman spotted a thief 40 metres ahead of him. The moment they both saw each other they started running in the same direction on the same track. The thief was running at $10 \mathrm{~m} / \mathrm{sec}$ and the policeman was chasing him at the speed of $12 \mathrm{~m} / \mathrm{sec}$. How much distance (in metres) the policeman needed to cover to catch the thief?
Ans
$\times 1.180$
5. 240
6. 200
7. 225
Q. 13 If $\cos \theta+\cos ^{2} \theta=1$, find the value of $\sqrt{\sin ^{4} \theta+\cos ^{2} \theta}$.

Ans

1. $\sqrt{2} \operatorname{Cos} \theta$
2. $2 \operatorname{Cos} \theta$
3. $\sqrt{2} \operatorname{Sin} \theta$
4. $2 \operatorname{Sin} \theta$
Q. 14 Find the HCF of 60,148 and 382.

Ans

1. 2
$\times 2.6$
$\times 3.4$
2. 24
Q. 15 Raghav went to a shopping mall to purchase clothes. He had two coupons with him, but only one can be used on a single day. Using the first coupon, a total discount of $30 \%$ could be obtained on the total amount. Using the second coupon, he will get 80\% off on the price of the costliest shirt if he buys at least 3 shirts. What is the price at which Raghav can purchase 3 shirts at a minimum price if the prices of the three shirts are Rs.1,250, Rs.1,540 and Rs.1,375?
Ans
X 1. Rs.2,760
3. Rs.2,915.50

X 3. Rs.2,775
X 4. Rs.2,933
Q. 16 If $\sin A=4 / 5$, then what is the value of $\sin ^{2} A$ ?

Ans

1. $26 / 25$
2. $36 / 25$
3. $48 / 25$
4. $16 / 25$
Q. 17 A solid metallic sphere of radius 12 cm is melted and recast into a cone having diameter of the base as 12 cm . What is the height of the cone?
Ans
$\times 1.258 \mathrm{~cm}$
5. 192 cm
6. 166 cm
7. 224 cm
Q. 18 In the given figure, if PA and PB are tangents to the circle with centre O such that $\angle \mathrm{APB}=54^{\circ}$, then $\angle \mathrm{OBA}=$


Ans $27^{\circ}$
$\times 2.40^{\circ}$
$\times 3.30^{\circ}$
$\times 4.35^{\circ}$
Q. 19 In the figure, XYZ is a secant and ZT is a tangent to the circle at T . If $\mathrm{TZ}=12$ cm and $Y Z=8 \mathrm{~cm}$, then find the length of $X Y$.


Ans
$\times 1.8 \mathrm{~cm}$
$\times 2.9 \mathrm{~cm}$
$\times 3.6 \mathrm{~cm}$
4. 10 cm
Q. 20 A dishonest dealer sells the goods at $7 \%$ loss on cost price but uses $18 \%$ less weight. What is his percentage of profit? (Correct to 2 decimal places)
Ans
X 1.25.65\%
2. $12.82 \%$
3. $28.75 \%$
4. $13.41 \%$
Q. 21 If $x+y+z=0$ and $x^{2}+y^{2}+z^{2}=40$, then what is the value of $x y+y z+z x$ ?

Ans

- 1. -20
$\times 2.5$
×3. -5

4. -10
Q. 22 The expenditure on the cost of living of a man and his family is $60 \%$ of his salary. He gets two increment of $30 \%$ and $60 \%$ in his salary. If his saving increases by $250 \%$ of his initial saving, then the new cost of living expenditure is what percentage (rounded off to the nearest integer) of the increased salary?
Ans
5. 32.7 Percent
6. 43.6 Percent
7. 29.5 Percent
8. 36.6 Percent
Q. 23 If the areas of two isosceles triangles are in the ratio of $x^{2}: y^{2}$, then the ratio of their corresponding heights is:
Ans
9. $x: y$
10. $\sqrt{x}: \sqrt{y}$
11. $x^{3}: y^{3}$
$x 4 \cdot x^{2}: y^{2}$
Q. 24 A sum of money doubles itself in 7 years at simple interest. In how much time will it become 5 times of itself?

Ans
$\times 1.25$ years
2. 28 years
3. 23 years
4. 21 years
Q. 25 If a 7-digit number 54p3987 is divisible by 11 , then $p$ is equal to:

Ans

1. 5
2. 9
3. 4
4. 1

## Section : English Comprehension

Q. 1 Select the most appropriate ANTONYM of the underlined word.

Social economics is a meta-discipline in which economics is entrenched in social, political and cultural behaviours.

Ans
X 1. Averted
2. Startling
3. Transient
4. Entrusted
Q. 2 Select the most appropriate synonym of the bracketed word to fill in the blank.

Your words seemed more like a demand rather than a $\qquad$ (request).
Ans

1. plea
2. compromise
3. contract
4. order
Q. 3 Select the option that can be used as a one-word substitute for the underlined group of words in the following sentence.

Sita seems not to be affected by the pleasures and pains of life.
Ans
$\times 1$. strict
X 2. active

- 3. stoic

X 4. passive
Q. 4 Select the most appropriate meaning of the given idiom. Red tape
Ans $\times 1$. Catch someone at the moment they are doing something wrong
2. Official rules and bureaucracy that make it difficult to do something

X 3. Have a negative amount in your bank balance
X 4. Something unimportant that takes attention away from the main subject
Q. 5 Select the most appropriate option to fill in the blank. Either he is mad, or he feigns $\qquad$ -.
Ans
X 1. happiness
2. madness

X 3. calmness
X 4. sadness
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.
Having a feeling of guilt
Ans
X 1. Refulgence
X 2. Restitution
2. Remorse

X 4. Repugnance
Q. 7 Choose the incorrectly spelt word.

Ans
X 1. Benchmark
X 2. Knight
X 3. Aggravate
4. Subsistance
Q. 8 Select the most appropriate option to fill in the blank.

I felt $\qquad$ elated at the news.
Ans

1. commonly
2. strangely

X 3 . customarily
X 4. typically
Q. 9 Select the option that can be used as a one-word substitute for the given group of words.

A person who criticises traditional beliefs and customs
Ans

1. Heretic
2. Absconder

X 3. Apostle

- 4. Iconoclast
Q. 10 Select the correct passive form of the given sentence.

He drank a lot of coffee before the marathon.
Ans

1. A lot of coffee was drunk by him before the marathon.

X 2. A lot of coffee is drunk by him before the marathon.
X 3. A lot of coffee was drunken by him before the marathon.
X 4. A lot of coffee had been drunk by him before the marathon.
Q. 11 Select the option that expresses the given sentence in passive voice.

They flew a kite in the evening.
Ans
$\times 1$. A kite was being flown by them in the evening.
X 2. In the evening, a kite have been flown by them.
X 3. A kite has been flown by them since evening.
4. A kite was flown by them in the evening.
Q. 12 Select the most appropriate synonym of the underlined word in the given sentence.

The young fellow was innocent and without guile.
Ans
X 1. Morality
$\times 2$. Pride
X 3. Greed
4. Deceit
Q. 13 Select the INCORRECTLY spelt word.

Ans
X 1. Musk
X 2. Decide
3. Extarnal
$\times 4$. Angel
Q. 14 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The students were warned on coming late to school.
Ans

1. warned against
2. warned at
3. warned in
4. warned with
Q. 15 Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.

Let us know what you think in black and white.
Ans
X 1. in darkness and light
2. verbally
3. in writing
4. in black and white paint
Q. 16 Rearrange the parts of the sentence in correct order.

The absence of
P. data on the migrant workers was
Q. formulating effective policy decisions and
R. preventing the governments from
$S$. strategies for the welfare of migrant workers
Ans $\times 1$. QPRS
X 2. RPQS
X 3.PSRQ
4. PRQS
Q. 17 Select the correct direct form of the given sentence.

Meena said that her parents were getting divorced.
Ans
X 1. Meena said, "My parents get divorced."
2. Meena said, "My parents are getting divorced."
3. Meena said, "My parents will be getting divorced."
4. Meena said, "My parents were getting divorced."
Q. 18 Select the most appropriate ANTONYM of the underlined word.

The singer complained to the police that she was purportedly. attacked back stage immediately after the concert.
Ans

1. Maliciously
2. Impossibly

X 3. Dramatically
4. Severely
Q. 19 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The students usually asks / for a bonus time of / thirty minutes for / completing their projects.
Ans

1. The students usually asks
2. completing their projects

X 3. for a bonus time of
4. thirty minutes for
Q. 20 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

One of the major challenges / he faced during his / undergraduate days were / the shortage of money.
Ans
$\times 1$. he faced during his
2. One of the major challenges
3. the shortage of money
4. undergraduate days were

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Being constant (1) $\qquad$ repeating a task or action, or performing an activity without a stop or interval. Consistency can never be attained in a sporadic or (2) $\qquad$ manner. When you perform anything regularly or constantly, you will not only build expertise in that area, but you will also gain a better (3) $\qquad$ of it. Because of the greater amount of effort put in over a longer period of time, this enhanced comprehension is (4) $\qquad$ As a result, consistency is the (5) $\qquad$ that allows anyone to consistently put in the effort.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. envelops
$\times 2$ 2 initiates
$X$ 3. figure
4. entails

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Being constant (1) $\qquad$ repeating a task or action, or performing an activity without a
stop or interval. Consistency can never be attained in a sporadic or (2) $\qquad$ manner.
When you perform anything regularly or constantly, you will not only build expertise in that area, but you will also gain a better (3) $\qquad$ of it. Because of the greater amount of effort put in over a longer period of time, this enhanced comprehension is (4) $\qquad$ As a result, consistency is the (5) $\qquad$ that allows anyone to consistently put in the effort.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. casual
2. intermittent

X 3. discipline
$\times 4$. focus

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Being constant (1) $\qquad$ repeating a task or action, or performing an activity without a stop or interval. Consistency can never be attained in a sporadic or (2) $\qquad$ manner.
When you perform anything regularly or constantly, you will not only build expertise in that area, but you will also gain a better (3) $\qquad$ of it. Because of the greater amount of effort put in over a longer period of time, this enhanced comprehension is (4) $\qquad$ As a result, consistency is the (5) $\qquad$ that allows anyone to consistently put in the effort.

SubQuestion No: 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
$X 1$. decision
2. comprehension
$X$ 3. estrangement
$\times 4$. ignorance

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Being constant (1) $\qquad$ repeating a task or action, or performing an activity without a stop or interval. Consistency can never be attained in a sporadic or (2) $\qquad$ manner.
When you perform anything regularly or constantly, you will not only build expertise in that area, but you will also gain a better (3) $\qquad$ of it. Because of the greater amount of effort put in over a longer period of time, this enhanced comprehension is (4) $\qquad$ . As a result, consistency is the (5) $\qquad$ that allows anyone to consistently put in the effort.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $\quad$ 1. destructible
2. feasible
$\times$ 3. credible
X4. fluctuating

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Being constant (1) $\qquad$ repeating a task or action, or performing an activity without a stop or interval. Consistency can never be attained in a sporadic or (2) $\qquad$ manner. When you perform anything regularly or constantly, you will not only build expertise in that area, but you will also gain a better (3) $\qquad$ of it. Because of the greater amount of effort put in over a longer period of time, this enhanced comprehension is (4) $\qquad$ . As a result, consistency is the (5) $\qquad$ that allows anyone to consistently put in the effort.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. resistance
X 2. apparatus
3. instrument

X 4. utensil

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | Maa Kamla Digital Center |
| Exam Date | 12/12/2022 |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans
$\times 1 . \square$
$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 2 Three statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with
commonly known facts, decide which of the conclusions logically follow(s) from the
statements.
Statements:
All oranges are apples.
Some oranges are bananas.
All bananas are fruits.
Conclusions:
I. Some fruits are apples.
II. Some apples are bananas.
III. Some oranges are fruits.

Ans $\times 1$. Only conclusions I and III follow.
X 2. Only conclusions II and III follow.
3. All conclusions follow.

X 4. Only conclusions I and II follow.
Q. 3 By interchanging the given two signs which of the following equation will be not correct?

+ and -
Ans
X $1.18+6-6 \div 3 \times 3=6$
X2. $18+2 \times 6 \div 3-7=50$
- $3.7 \times 8 \div 4+2-6=49$

X4. $6 \times 9+3-24 \div 8=2$
Q. 4 Select the figure that will replace the question mark (?) in the following figure series.


Ans

$\times 2$.

$\times 3$.

Q. 5 Three different positions of the same dice are shown (figures 1 to 3). Find the number on the face opposite to the face having ' 6 '.

figure 1

figure 2

figure 3

Ans
$\times 1.1$

- 2.5
$\times 3.4$
$\times 4.2$
Q. 6 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans

1. CXA

X 2. UGS
X 3.JRH
$\times 4$. NNL
Q. 7 In a certain code language, 'APPRECIATE' is written as 'ETAICERPPA', 'MOTIVATION' is written as 'NOITAVITOM'. How will 'FRIENDSHIP' be written in that language?
Ans

1. PIHSDNIERF
2. PIHSDENIRF
3. PIHSNDEIRF
4. PIHSDNEIRF
Q. 8 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

## Cattle : Herd

Ans
X 1. Soldiers: Colony
2. Sailors: Crew

X 3. Pupils: Team
4. Player: Class
Q. 9 Select the option figure that is embedded in the given figure. (Rotation is not allowed).


Ans
$\times 1$.

2.

3.

4.

Q. 10 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(17,59,625)$
$(8,44,784)$
Ans $\quad \times 1 .(22,78,784)$
2. $(12,69,2025)$
3. $(24,70,576)$
4. $(18,74,1296)$
Q. 11 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Solids : Freeze :: Gases : ?
Ans
< 1. Melts
2. Smells
3. Freezes
4. Evaporates
Q. 12 If $A \times B$ means that $A$ is the father of $B, A \div B$ means that $A$ is the mother of $B, A+B$ means that $A$ is the brother of $B$ then which of the following expression shows that $P$ is the paternal grandmother of $R$ ?
Ans
$X 1 . P \div R \times Q$
2. $P \div Q \times R$

X $3 . P \div Q+R$
X4. $\mathrm{P} \times \mathrm{Q} \div \mathrm{R}$
Q. 13 By interchanging the given two signs and numbers which of the following equation will be not correct?

+ and -, 3 and 5
Ans
X $1.5 \times 4+3-6 \div 2=10$
X2. $7 \times 4 \div 2-5+3=12$
X $3.5 \times 4-3+4 \div 2=15$

2. $4.5-3+8 \times 4 \div 2=10$
Q. 14 ' $A$ @ $B$ ' means ' $A$ is the husband of $B$ '.
' $A$ \& $B$ ' means ' $A$ is the father of $B$ '.
' $A$ \# $B$ ' means ' $B$ is the son of $A$ '.
If F \& G @ H \# I @ J, then how is G related to J?
Ans $\times 1$. Father
3. Son
4. Husband
5. Father-in-law
Q. 15 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$13-65 \div 45 \times 21+2=82$
Ans
X 1.65 and $13, \times$ and +
6. 45 and $13, \times$ and +
$\times 3.45$ and $21, \times$ and +
7. 45 and $13,-$ and +
Q. 16 After arranging the given words according to dictionary order, which word will come at 'Third' position?
8. Aquarium
9. Aquatic
10. Aquarial
11. Aquatint
12. Aquavit

Ans

1. Aquatic
2. Aquatint
3. Aqurial
4. Aquarium
Q. 17 Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.


Ans

Q. 18 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
4:61:: 9 : 726 :: 6 : ?
Ans
$\times 1.356$
$\times 2.316$
$\times 3.242$
ح. 213
Q. 19 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some L are Z.
II. Some L are T.

Conclusion:
I. All $Z$ are L.
II. No $T$ is $Z$.

Ans
X 1. Only conclusion I follows
X 2. Both conclusions I and II follows
X 3. Only conclusion II follows
4. Neither conclusion follows
Q. 20 In a certain code language, 'LABOUR' is written as 'XZSECM' and 'GAINED' is written as 'JJRLCH'. How will 'EARNED' be written in that language?
Ans

1. JJRUCF
2. KJRVCF

X 3. FCVRJJ
4. JIRVCF
Q. 21 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(5, 98, 9)
$(10,168,14)$
Ans

1. $(1,28,3)$
(2. $(7,108,23)$

X $3 .(15,248,19)$
4. $(3,88,17)$
Q. 22 Which of the following numbers will replace the question mark (?) in the given series 12.8, 13.5, 14.9, 17,?

Ans

1. 19.8
2. 19.5
3. 20.5
4. 18.9
Q. 23 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, CUKA, ENSX, GGAU, ?
Ans
5. IQRT
6. MNOQ
7. IRQT
8. IZIR
Q. 24 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans

1. (17-51-147)
2. (10-30-90)
3. $(15-45-135)$
4. $(22-66-198)$
Q. 25 Which of the following letter-clusters will replace the question mark (?) and complete the following letter-cluster series?
IR, BY, UF, NM, GT, ?
Ans
5. ZA
6. $Z B$
7. YA
8. YB
Q. 1 All the $\qquad$ countries likely to have Constitution.
Ans $\times 1$. communist
9. democratic

X 3. oligarchic
X 4. totalitarian
Q. 2 In which of the following places is the Tak Tok festival celebrated?

Ans $\times 1$. Assam
X 2. Nagaland
3. Ladakh

X4. Tripura
Q. 3 Who among the following teamed up with flautist Hariprasad Chaurasia and guitarist Brij Bhushan Kabra and produced a concept album, 'Call of the Valley' (1967)?
Ans
X 1. Tarun Bhattacharya
X 2. Bhajan Sopori
3. Shivkumar Sharma

X 4. Satish Vyas
Q. 4 Dekhni is a folk dance associated with which Indian state?

Ans $\times 1$. Madhya Pradesh
2. Bihar
3. Goa
4. West Bengal
Q. 5 Which of the following is one of the Open Market Operations by the Reserve Bank of India?
Ans

1. Buying and selling of bonds issued by the Government in the open market

X 2. Buying and selling of bonds issued by commercial banks in the open market
X 3. Only buying of bonds issued by the Government in the open market
4. Only selling of bonds issued by the Government in the open market
Q. 6 In 1931, who recognised that an aromatic compound must have an odd number of pairs of electrons, which can mathematically be written as $4 n+2$ ( $n=0,1,2,3$ etc.)?
Ans
X 1. Antoine Lavoisier
2. Erich Huckel
3. Auguste Laurent
4. Jacob Berzelius
Q. 7 What is the chemical name of saltpetre?

Ans

1. Potassium nitrate
2. Potassium manganite
3. Lead nitrate
4. Lead sulphate
Q. 8 Which of the following statement is correct with respect to the Prashastis and land grants?
I. Prashastis were composed by learned Brahmanas.
II. Kings often rewarded Brahmanas by grants of land which were recorded on copper plates.
Ans
X 1 . Only I
5. Both I and II

X 3. Only II
X 4. Neither I nor II
Q. 9 Identify the place from the following where an Atomic Power Station is located:

Ans
$X$ 1. Hirakud
X 2. Naharkatiya
3. Kakrapar

X 4. Tatipaka
Q. 10 In Tennis, what is the score when the receiver wins the next point after deuce?

Ans 1.Advantage out
2. 30-40
3. Advantage in
4. 40-30
Q. 11 According to census 2011, Density of population is $\qquad$ persons per square km.
Ans
$\times 1.362$
$\times 2.412$

- 3.382
$\times 4.392$
Q. 12 Which of the following combinations is NOT correct?

Ans
X 1. Wular lake - Kashmir
2. Vembanad lake - Maharashtra
3. Chilika lake - Odisha
4. Naini lake - Uttarakhand
Q. 13 What is the correct statement related to Avogadro?

Ans $\times 1$. Avogadro discovered electrons.
2. Avogadro made a distinction between electrons and neutrons.
3. Avogadro discovered a difference between animal and plant cell.
4. Avogadro made a distinction between atoms and molecules.
Q. 14 'Anaconda' one of the world's largest snakes is found in $\qquad$ -.
Ans 1. Tropical evergreen forest
X 2. Monsoon forest
X 3. Temperate evergreen forest
4. Temperate grasslands
Q. 15 The $22^{\text {nd }}$ Commonwealth Games are scheduled to be held in which of the following countries?
Ans
X 1. India
X 2. Australia
3. England

X 4. Japan
Q. 16 Which state government decided to conduct a caste-based census called the 'Jaati Aadharit Ganana' exercise?

Ans
(1. Madhya Pradesh
2. Rajasthan
3. Tripura
4. Bihar
Q. 17 Battle of Buxar was fought in $\qquad$ _.
Ans
$\times 1.1767$
$\times 2.1757$

- 3.1764
$\times 4.1774$
Q. 18 In June 2022, AGNIPATH scheme was launched by the central government for which of the following purposes?

Ans

1. Recruitment of youth in the Armed Forces
2. Popularising the use of non-plastic alternatives
3. Sustainable and inclusive development of metro cities
4. Providing house facilities to tea garden workers
Q. 19 One of India's worst industrial disasters of all time occurred in Bhopal on December 1984, in which of the following factories?
Ans
$X$ 1. Exide
5. Bharat Rasayan Limited
6. Union Carbide
7. UPL Limited
Q. 20 Which of the following awards was received by Vempati Chinna Satyam, an Indian Kuchipudi dancer, in 1998?
Ans
8. Padma Bhushan
< 2. Padma Vibhushan
X 3. Padma Shri
X 4. Tagore Puraskar
Q. 21 Which dynasty bronze statues were made using the "lost wax" technique?

Ans

1. Chola

X 2. Pandya
X 3. Chalukya
X 4. Pala
Q. 22 Lake Kolleru is situated in which of the following states?

Ans

1. Andhra Pradesh
2. Tamil Nadu
3. Karnataka
4. Kerala
Q. 23 In March 2022, who among the following became the Chief Minister of Punjab?

Ans $\times 1$. Lal Chand Kataruchakk
2. Bhagwant Mann
3. Laljit Singh Bhullar
4. Kuldeep Singh Dhaliwal
Q. 24 The Supreme Court on 18 July, 2022 ordered its registry to work out a mechanism to remove personal details of persons entangled in matrimonial litigation. This decision was taken to recognize which right as part of 'right to privacy'?
Ans

1. Right to practice religion
2. Right to be forgotten

X 3. Right to division of power
X 4. Right to live
Q. 25 The word India came from the Indus, called $\qquad$ in Sanskrit.
Ans
X1. Bhanuh
X 2. Adya
X 3. Sarvatr
4. Sindhu

[^9]Q. 1 The given bar diagram represents the number of persons who have taken an insurance policy on the $y$-axis, and the year of purchase of the insurance policy on the x -axis.


What is the average number of persons who have taken the insurance policy, excluding in the year 2012?
Ans

- 1.72
$\times 2.60$
$\times 3.70$

4. 62
Q. 2 The HCF of two numbers is 21 and their LCM is 840 . If one of the numbers is 49 , then the other number is:

Ans
X 1.650
$\times 2.540$
3. 810
4. 360
Q. 3 A shopkeeper offers the following three schemes.

Scheme-I: Two successive discounts of $15 \%$ and $25 \%$
Scheme-II: Buy 5, get 3 free
Scheme-III: Buy 4, get 6
Which scheme is the best for customers?
Ans
X 1. Scheme-I
2. Scheme-III
3. Scheme-II
4. Any one- All are equal
Q. 4 The ratio of the cost price and selling price of an article is $10: 11$. The gain per cent is:

Ans

1. 10\%

X $2.8 \%$
X $3.5 \%$
4. 15\%
Q. 5 If Anju is $30 \%$ more efficient than Bitt, then how much time will they take, working together, to complete a job which Anju alone could have done in 23 days?

Ans

1. 13 days

X 2. $20 \frac{3}{17}$ days
$\times 3.15$ days
$\times 4.11$ days
Q. 6 A boat moves 25 km upstream and 39 km downstream in 8 hours. It travels 35 km upstream and 52km downstream in 11 hours. What is the speed of the stream if it travels at a uniform speed?
Ans
1.4 km/h

X2.5 km/h
X $3.6 \mathrm{~km} / \mathrm{h}$
X $4.3 \mathrm{~km} / \mathrm{h}$
Q. 7 If $\operatorname{cosec} \theta+\cot \theta=p$, then the value of $\frac{p^{2}-1}{p^{2}+1}$ is:

Ans

- 1. $\cos \theta$

X 2. $\sin \theta$
3. $\cot \theta$
4. $\operatorname{cosec} \theta$
Q. 8 A machine takes 10 h to cut 240 tools. How many tools will it cut in $\mathbf{2 5} \mathbf{h}$ ?

Ans

1. 600
2. 480
3. 550
4. 360
Q. 9 If $m+\frac{1}{m-2}=4$, then find the value of $(m-2)^{2}+\frac{1}{(m-2)^{2}}$.

Ans
X 1. -2
$\times 2.4$
$\times 3.0$

- 4.2
Q. 10 What is the value of the expression $\cos 2 \mathrm{~A} \cos 2 \mathrm{~B}+\sin ^{2}(\mathrm{~A}-\mathrm{B})-\sin ^{2}(\mathrm{~A}+\mathrm{B})$ ?

Ans
$X 1 \cdot \sin (2 A-2 B)$
X 2. $\sin (2 A+2 B)$
3. $\cos (2 A+2 B)$

X 4. $\cos (2 A-2 B)$
Q. 11 If $5 x-\frac{5}{x}+6=0$, then $x^{2}+\frac{1}{x^{2}}$ is:

Ans

- $1 . \frac{86}{25}$

X2. $\frac{43}{12}$
$\times 3 \cdot \frac{81}{10}$
$\times 4 . \frac{86}{11}$
Q. 12 The least number that should be added to 35460 so that the sum is exactly divisible by
$3,4,5$ and 7 is:
Ans
X 1.84
$\times 2.420$

- 3.240
$\times 4.180$
Q. 13 In $\triangle A B C, D$ and $E$ are points on sides $A B$ and $A C$, such that $D E$ II $B C$. If $A D=x+3$, $D B$
$=2 x-3, A E=x+1$ and $E C=2 x-2$, then the value of $x$ is:
Ans
4

1. $\overline{5}$
×2. $\frac{1}{2}$
2. $\frac{3}{5}$
3. $\frac{1}{5}$
Q. 14 If $\triangle A B C \sim \triangle E D F$ such that $A B=6 \mathrm{~cm}, D F=16 \mathrm{~cm}$ and $D E=8 \mathrm{~cm}$, then the length of $B C$ is:

Ans

1. 12 cm
2. 10 cm
3. 14 cm

- 4.8 cm
Q. 15 How many metres of 2-m-wide cloth will be required to make a conical tent with the diameter of the base as 14 m and slant height as 9 m ignore wastage?

Ans
$\times 1.66 \mathrm{~m}$
2. 88 m
3.99 m
4.77 m
Q. 16

If $a=26$ and $b=22$, then the value of $\frac{a^{3}-b^{3}}{a^{2}-b^{2}}-\frac{3 a b}{a+b}$ is $\qquad$ .

Ans
$\times 1 . \frac{5}{3}$
2. $\frac{13}{11}$
3. $\frac{1}{3}$
4. $\frac{11}{13}$
Q. 17 The table given below shows the budget allocation for education in five states in a year.

| States | Budget allocation |
| :---: | :---: |
| D | 225 |
| E | 75 |
| F | 250 |
| G | 425 |
| H | 535 |

What is the total budget allocation for education in all the states?
Ans
$\times 1.1620$
$\times 2.1705$
3. 1280
4. 1510
Q. 18 Radius of a circle is 5 cm . Length of chord $A B$ in this circle is 6 cm . What is the distance of this chord from the centre of the circle?

Ans
1.4 cm
$\times 2.5 \mathrm{~cm}$
$\times 3.6 \mathrm{~cm}$
4. 8 cm
Q. 19 The table given below shows the GDP of two countries in different five years.

|  | Country |  |
| :---: | :---: | :---: |
| Years | A | B |
| Y1 | 175 | 285 |
| Y2 | 200 | 300 |
| Y3 | 150 | 125 |
| Y4 | 75 | 85 |
| Y5 | 50 | 95 |

K1 = The value of average GDP of country A in all the 5 years.
K2 = The value of average GDP of country $B$ in all the 5 years.
What is the value of $(\mathrm{K} 1+\mathrm{K} 2)$ ?
Ans
$\times 1.316$

- 2.290

3. 308
4. 178
Q. 20 Find the value of $\tan 27^{\circ} \tan 34^{\circ}+\tan 34^{\circ} \tan 29^{\circ}+\tan 29^{\circ} \tan 27^{\circ}$.

Ans
$\times 1.0$
$\times 2 .-1$
X 3. $\sqrt{3}$

- 4.1
Q. 21 The minute hand of a clock is 20 cm long. Find the area on the face of the clock swept by the minute hand between 8 a.m. and 8:45 a.m.

Ans

1. $\frac{6600}{7} \mathrm{~cm}^{2}$
2. $\frac{6600}{9} \mathrm{~cm}^{2}$
3. $\frac{6600}{18} \mathrm{~cm}^{2}$

X4. $\frac{6600}{14} \mathrm{~cm}^{2}$
Q. 22 The following table shows the marks distribution among the students in a class.

| Marks | No. of <br> Students |
| :---: | :---: |
| Less than 10 | 2 |
| Less than 20 | 5 |
| Less than 30 | 6 |
| Less than 40 | 8 |
| Less than 50 | 10 |

How many students scored marks between 20 and 30 ?
Ans
$\times 1.2$
$\times 2.5$

- 3.1
$\times 4.6$
Q. 23 A person borrows Rs. $1,00,000$ from a bank at $10 \%$ per annum simple interest and clears the debt in five years. If the instalment paid at the end of the first, second, third and fourth years to clear the debt are Rs.10,000, Rs.20,000, Rs.30,000 and Rs.40,000, respectively, what amount should be paid at the end of the fifth year to clear the debt?
Ans
X 1.Rs.38,250

2. Rs.39,490
3. Rs. 40,450
4. Rs. 36,450
Q. 24 The average of six numbers is 3.52 . The average of two of them is 3.7 , while the average of other two is $\mathbf{2 . 5}$. What is the average of the remaining two?
Ans
1.3 .7
5. 2.5
6. 4.36
7. 3.52
Q. 25 A Microwave oven is sold in Hyderabad for Rs.M. A retailer, Elahi from Hyderabad went to Madras and bought it for $25 \%$ less (when compared to the price in Hyderabad). He spends Rs. 1,000 on transport to bring it from Madras to Hyderabad. He sold it in Hyderabad for Rs.M making a profit of 10\%. Find the value of $\mathbf{M}$ (in Rs.).
Ans
X 1. 6,305.8
8. $6,258.8$
9. $6,285.7$
10. 6,527.9

Section : English Comprehension
Q. 1 Select the option that can be used as a one-word substitute for the underlined group of words.

My uncle is someone who loves good food and knows a lot about it.
Ans
X 1. Connoisseur
2. Gourmet
3. Chauffeur
4. Culinary
Q. 2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.She participates in several functions and musical shows and receives accolades for her singing.
B.Vineeta has a very sweet voice which has inspired her to adopt singing as her profession.
C. She can also play musical instruments such as the sitar and the harmonium.
D.Now, she has opened a music school to train young singers.

Ans
X 1. ADCB
2. BACD
$\times 3$. ACDB
X 4. DCBA
Q. 3 Select the most appropriate synonym of the given word.

## Permeate

Ans

1. Exude
2. Continue
3. Remain
4. Diffuse
Q. 4 Select the sentences that contains no spelling errors.

Ans
X 1. Anxiety is one of the most insidyous conditions affecting the mental health of an individual.
2. Anxiety is one of the most insidious conditions affecting the mental health of an individual.

X 3. Anxiety is one of the most insicdious conditions affecting the mental health of an individual.

X 4. Anxiety is one of the most insidiouos conditions affecting the mental health of an individual.
Q. 5 Select the most appropriate synonym of the given word.

## Answer

Ans
X 1. Recall
2. Reply
3. Remember
4. Query
Q. 6 Select the most appropriate option to fill in the blank.

She couldn't continue with a $\qquad$ diet to reduce her blood sugar.
Ans
$X$ 1. practiced
$\times 2$. shortened
$X$ 3. maintained
4. balanced
Q. 7 Select the most appropriate option to fill in the blank.

She has $\qquad$ her money and jewellery to help the poor.
Ans
X 1. given up
2. given away
$\times$ 3. given in
X 4. given way
Q. 8 Select the correct spelling of the underlined word from the following options.

He deceaved the fraternity by the news of his unparalleled accomplishment to accommodate himself in the academic field.

Ans
X 1. decieved
2. desieved
3. deseived
4. deceived
Q. 9 Select the correct passive form of the given sentence. Uma told Susan to give up drinking.
Ans 1. Susan was told to give up smoking by Uma.
X 2. Susan is told to give up smoking by Uma.
X 3. Susan has been told to give up smoking by Uma.
X 4. Susan had been told to give up smoking by Uma.
Q. 10 Select the correct indirect form of the given sentence.

Renu said to her brother, "You were watching the show without me."
Ans

1. Renu told her brother that he had been watching the show without her.
2. Renu told her brother that he has been watching the show without her.
3. Renu told her brother that he had watched the show without her.
4. Renu told her brother that he were watching the show without her.
Q. 11 Select the most appropriate ANTONYM of the given word.

Cacophony
Ans
X 1. Colophony
2. Polyphony
3. Symphony
4. Antiphony
Q. 12 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The audience has being / angry as the magician / is not performing / as expected.
Ans

1. is not performing
2. as expected
3. The audience has being
4. angry as the magician
Q. 13 Rearrange the parts of the sentence in correct order. Medieval people undertook
P. purify themselves of sin, to transform
Q. pilgrimages individually, travelling to
R. themselves through a trial of faith.
S. distant shrines as a penance to

Ans $\times 1 . \mathrm{PSRQ}$
X 2. QPRS
X 3.SPQR
4. QSPR
Q. 14 Select the option that can be used as a one-word substitute for the given group of words.

One who can speak two languages
Ans
X 1. Multilingual
2. Bilingual

X 3. Trilingual
X 4. Monolingual
Q. 15 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P. Honey ants are common in deserts and other arid climates around the world.
Q. They are part of the "worker" caste of honey ants.
R. Other castes include soldiers, who protect the colony from predators and the queen -usually is the mother of all other ants in the colony.
S. Only some honey ants become "living larders".

Ans $\times 1 . \mathrm{RPQS}$
X 2. RSPQ
3. PSQR

X 4. SQRP
Q. 16 Select the most appropriate meaning of the given idiom.

He's sitting on the fence
Ans
X 1. He can't stop trying
X 2. He can't do anything seriously
X 3. He can't hide himself
4. He can't take a decision
Q. 17 Select the most appropriate ANTONYM of the given word.

Jeopardy
Ans

1. Safety
2. Danger
3. Precaution
4. Risk
Q. 18 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

The meeting was held upon / for an hour / due to non-availability / of the committee members.

Ans
$X$ 1. of the committee members.
2. due to non-availability
3. for an hour
4. The meeting was held upon
Q. 19 Select the correct active form of the given sentence. Before she came all the work had been completed by me.

Ans
X 1. I will complete all my work before she came.
2. I had completed all my work before she came.
3. I completed all my work before she came.

X 4 . I complete all my work before she came.
Q. 20 Select the option that can be used as a one-word substitute for the given group of words.
to give up completely or agree to forgo, especially in favour of another
Ans
X 1. Waive
X 2. Forfeit
2. Surrender
(4. Cosign

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As writers we live life twice, like (1) $\qquad$ cow that eats its food once and then regurgitates it to chew and digest (2) $\qquad$ again. We have a second chance (3) biting into our experience and examining it. This is our life and it's not going to last
forever. There isn't time to talk about someday writing that short story or poem or novel. Slow down now, touch what is (4) $\qquad$ you, and out of care and compassion for (5) moment and detail, put pen to paper and begin to write.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. any

- 2. a
$\times$ 3. some
X4. as


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As writers we live life twice, like (1) $\qquad$ cow that eats its food once and then regurgitates it to chew and digest (2) $\qquad$ again. We have a second chance (3) biting into our experience and examining it. This is our life and it's not going to last forever. There isn't time to talk about someday writing that short story or poem or novel. Slow down now, touch what is (4) $\qquad$ you, and out of care and compassion for (5)
$\qquad$ moment and detail, put pen to paper and begin to write.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. away
$\times 2$ 2. more
3. it

X4. a few

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As writers we live life twice, like (1) $\qquad$ cow that eats its food once and then regurgitates it to chew and digest (2) $\qquad$ again. We have a second chance (3) biting into our experience and examining it. This is our life and it's not going to last
forever. There isn't time to talk about someday writing that short story or poem or novel. Slow down now, touch what is (4) $\qquad$ you, and out of care and compassion for (5) moment and detail, put pen to paper and begin to write.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

- 1 at

X 2. not
$X$ 3. beside
X4. about

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As writers we live life twice, like (1) $\qquad$ cow that eats its food once and then regurgitates it to chew and digest (2) $\qquad$ again. We have a second chance (3) biting into our experience and examining it. This is our life and it's not going to last
$\overline{\text { forever. There isn't time to talk about someday writing that short story or poem or novel. Slow }}$ down now, touch what is (4) $\qquad$ you, and out of care and compassion for (5) moment and detail, put pen to paper and begin to write.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans

1. around
2. neither
3. besides
4. above

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

As writers we live life twice, like (1) $\qquad$ cow that eats its food once and then regurgitates it to chew and digest (2) $\qquad$ again. We have a second chance (3)
biting into our experience and examining it. This is our life and it's not going to last forever. There isn't time to talk about someday writing that short story or poem or novel. Slow down now, touch what is (4) $\qquad$ you, and out of care and compassion for (5)
$\qquad$ moment and detail, put pen to paper and begin to write.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans

- 1. each

X 2. both
X 3.few
4. little

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | TCS Gito Bitan |
| Exam Date | 12/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, AXUR, ATMF, APET, ?
Ans
X 1. RATM
2. ALWH

X 3.ALHR
X 4.AMNO
Q. 2 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

Ans

1. UCF
2. ZXA
3. NJM
4. HDX
Q. 3 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All S are B.
II. Some B are C.

Conclusions:
I. All S are C.
II. No C is B.
III. All B are $S$.

Ans

1. All conclusion follows
2. Only conclusion I follows
3. Neither conclusion follows
4. Only conclusion II follows
Q. 4 Three statements are given, followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

## Statements:

No cup is a plate.
All cups are utensils.
Some bottles are cups.
Conclusions:
I. Some utensils are not plates.
II. Some bottles are not plates.
III. No bottle is a plate.

Ans

1. Only conclusions I and II follow
( 2. Only conclusions II and III follow
2. All conclusions follow
3. Only conclusions I and III follow
Q. 5 A \# B means ' $A$ is the sister of $B$ '.
$A @ B$ means ' $A$ is the son of $B$ '.
$A \& B$ means ' $A$ is the father of $B$ '.
$A \% B$ means ' $A$ is the mother of $B$ '.
If $\mathbf{W} @ \mathbf{Q} \% \mathrm{~T} \& \mathrm{Y} @ \mathrm{M} \% \mathrm{~K}$, then how is $\mathbf{W}$ related to K ?
Ans
X 1. Father
X 2. Mother's brother
4. Father's brother

X 4. Brother
Q. 6 Select the figure that can replace the question mark (?) in the following figure series.


Ans

$\times 1 .$| $\hat{H}$ |
| :---: |
| $X$ |

$\times 2$.

$\times 3 . \begin{array}{ll}0 & + \\ \text { मे } & x\end{array}$
2. $\begin{array}{ll}\hat{\hbar} & 0 \\ + & x\end{array}$
Q. 7 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.
M
ef 593 p (

## N

Ans




Q. 8 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).


Ans

Q. 9 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
WITNESS : SSENTIW :: SILENCE : ECNELIS :: PROTECT : ?
Ans
X 1. PROCETT
2. TCETORP
3. CETPROT
4. RPOTCET
Q. 10 In a certain code language, 'HABIT' is written as 'ITAHB' and 'BASED' is written as 'EDABS'. How will 'GAMES' be written in that language?

Ans

1. ESAGM
2. ESGAM
3. ESAMG
4. SEAGM
Q. 11 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
< 1. $(16-20-24)$

2. $(23-27-31)$
3. $(11-15-19)$
4. $(12-14-18)$
Q. 12 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 2 '.


Figure 1


Figure 2


Figure 3

Ans
$\times 1.4$
<2. 3

- 3.5
$\times 4.6$
Q. 13 Which of the following numbers will replace the question mark (?) in the given series?

25, 15, ?, -5, -15
Ans
X 1.20

- 2.5
$\times 3.10$

4. -1
Q. 14 Select the set in which the numbers are NOT related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(168,122,290)$
Ans
X 1. $(198,112,310)$
5. $(226,148,374)$
6. $(236,118,356)$
7. $(126,132,258)$
Q. 15 Which of the following interchange of numbers and mathematical signs would make
the given equation correct?
$72 \div 6-20+30 \times 5=70$
Ans
8. 5 and 20 , and $\times$
9. 20 and $30, \times$ and $\div$
10. 5 and 70 , + and -
4.6 and $20,+$ and $\div$
Q. 16 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

$\times 2$
12

10


10
4


8
Q. 17 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Lion : Roar
Ans
$X$ 1. Hen:Crow
X 2. Owl : Bleat
3. Horse : Neigh
4. Goat: Hoot
Q. 18 Select the correct combination of mathematical signs to sequentially replace the @ signs and to balance the given equation [\{(14 @ 6) @ (2 @ 3) \} @ (1 @ 7)] @ 2 @ 4
Ans
Х1. $\times, \div, \times, \times,-,+,=$
人2.,,$-+ \times, \times, \times, \times,=$
Х $3 . \times,-,+, \times, \div, \times,=$
4.,,$-+ \times, \div, \times, \times,=$
Q. 19 In a certain code language, 'ABACK' is written as 'MECDC' and 'CABAL' is written as 'NCDCE'. How will 'EAGER' be written in that language?

Ans

1. TGICG
2. TGCIG
3. TCIDG
4. TFICG
Q. 20 After arranging the given words according to dictionary order, which word will come at 'Fifth' position?
5. Overload
6. Overplay
7. Overlook
8. Overlain
9. Overland

Ans

1. Overlay
2. Overplay

X 3. Overload
X 4. Overland
Q. 21 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(8,540,60)$
$(9,70,7)$
Ans
$\times 1 .(12,56,60)$
2. $(8,63,7)$
$\times 3 .(9,54,12)$
X 4. $(9,45,7)$
Q. 22 Which two signs should be interchanged to make the given equation correct? $34 \div 16+4$ * $8-6=60$

Ans
X 1. - and *
X $2 .+$ and *
X $3 . \div$ and -

- $4 . \div$ and +
Q. 23 If $A \times B$ means that $A$ is the father of $B, A-B$ means that $A$ is the mother of $B, A \div B$ means that $A$ is the brother of $B$ then which of the following expression shows that $P$ is the paternal uncle of $R$ ?
Ans
- 1. $P \div Q \times R$

X2. $P \div Q-R$
X $3 . Q \div P \times R$
人4. $\mathrm{P} \times \mathrm{Q} \div \mathrm{R}$
Q. 24 Which letter cluster will replace the question mark (?) to complete the given series? VSNY, UQLU, ?, SMHM, RKFI

Ans

1. TOJQ
2. TOJR
3. TOKQ
4. TPJQ
Q. 25 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
14: 400:: 37 : ? :: 42 : 2304
Ans
$\times 1.1333$
$\times 2.1764$

- 3.1849
$\times 4.1521$


## Section : General Awareness

Q. 1 Which of the following players is associated with billiards?

Ans
X 1. Neeraj Chopra
X 2. Sankalp Gupta
3. Pankaj Advani

X 4. Manish Narwal
Q. 2 Name an alkylbenzene widely used as a chemical intermediate in the production of phenol.
Ans

1. Cumene

X 2. Furan
X 3. Styrene
4. Toluene
Q. 3 Fundamental Duties are contained within which Article of the Constitution of India?

Ans
X 1. Article 492
2. Article 51A

X 3. Article 50A
X 4. Article 44
Q. 4 Which Indian religious festival has recently been included in the representative list of intangible cultural heritage of humanity by UNESCO, an organisation of the United Nations?
Ans

1. Durga Puja
2. Ramnavami
3. Janmashtami
4. Mahashtami
Q. 5 Which of the following pairs of 'Ruler - Ruling period' is correctly matched?
I. Sher Shah Suri - 1540-1545
II. Akbar - 1556-1605

Ans
X 1. Neither I nor II
X 2. Only II
X 3. Only I
2. Both I and II
Q. 6 On 5 April 2022, who was appointed as the Chairman of the Union Public Service Commission?

Ans
X 1. S Raju
2. Suman K Bery
3. Manoj Soni

X 4. Ashwin Yardi
Q. 7 The Planning commission of India has divided India into how many Agro-climatic Zones?

Ans

1. 15

- 2.25

3. 18
4.20
Q. 8 Who among the following headed the National Income Committee?

Ans

1. PC Mahalanobis
2. VKRV Rao
3. DR Gadgil
4. BR Ambedkar
Q. 9 The mass number of titanium is:

Ans
X1.44.56
$\times 2.49 .82$
$\times 3.41 .33$
4. 47.78
Q. 10 The $\qquad$ Cabinet approved the country's first-of-its-kind gene bank programme in the State.
Ans

1. Rajasthan
2. Maharashtra
3. Andhra Pradesh
4. Odisha
Q. 11 In which year did AEB de Chancourtois organise the elements by atomic weight, by graphing the elements around a cylinder with a circumference of 16 units, corresponding to the weight of oxygen (O)?
Ans
5. 1862
6. 1860
7. 1870
8. 1868
Q. 12 A booklet released by the Lok Sabha Secretariat has listed out words and expressions that would be considered unparliamentary in both the Lok Sabha and Rajya Sabha. Which of the following words is NOT declared unparliamentary?
Ans
X 1. Shakuni
9. Nautanki
10. Chakkar
11. Girgit
Q. 13 The shape of peninsular plateau in India is $\qquad$ -.
Ans
X 1. Linear
X 2. Rectangular
X 3. Circular
12. Triangular
Q. 14 Which of the following cities hosted the finals of IPL 2022?

Ans
X 1. Kolkata
2. Ahmedabad
3. Mumbai
4. Hyderabad
Q. 15 In which of the following years, did Subhas Chandra Bose refer to Mahatma Gandhi as the "Father of the Nation"?

Ans
X 1.1942
2. 1944
3. 1939
4. 1941
Q. 16 The Green Revolution in India started in $\qquad$ -
Ans
X 1.1940s
$\times 2.1990$ s
X 3.1950s
4. 1960s
Q. 17 The Sattriya dance form was introduced in the $15^{\text {th }}$ century AD by the great Vaishnava saint and reformer of Assam, $\qquad$ —.
Ans
X 1. Chaitanya Mahaprabhu
2. Mahapurusha Sankaradeva

X 3. Vallabhacharya
X 4. Sant Namdev
Q. 18 T Balasaraswati, a $\qquad$ dancer was also an actress.
Ans

- 1. Bharatanatyam

X 2. Kuchipudi
X 3. Manipuri
X 4. Kathakali
Q. 19 Who runs the government at the national level under the parliamentary system?

Ans $\times 1$. The President and Council of Ministers
2. The Prime Minister and Council of Ministers
3. The Prime Minister
4. The President
Q. 20 Identify the INCORRECT pair.

Ans
$X$ 1. Ustad Allarakha Khan - Tabla
X 2. Ravi Shankar - Sitar
X 3. Mogubai Kurdikar - Vocal
4. Ustad Vilayat Khan - Sarod
Q. 21 In 1498, Vasco da Gama, a Portuguese explorer had discovered a route to $\qquad$ .

Ans

1. India
2. Australia
3. China
4. Japan
Q. 22 El-Nino develops in which of these oceans?

Ans
X 1. Arctic Ocean
2. Indian Ocean
3. Atlantic Ocean
4. Pacific Ocean
Q. 23 The border line which separate Indian and Pakistan is known as $\qquad$ .
Ans
X 1. Lahore line
X 2. McMahon line
3. Radcliffe line
4. Delhi line
Q. 24 Identify animals that are NOT triploblastic.

Ans
X 1 . Molluscs
2. Chordates
3. Coelenterates
4. Platyhelminthes
Q. 25 Which of the following statement is correct with respect to the Shaka dynasty? I. Some kingdoms of Shakas lasted for about 500 years.
II. The Shakas were followed by the Kushanas about 2200 years ago.

Ans

1. Neither I nor II
2. Only I
3. Both I and II
4. Only II

Section : Quantitative Aptitude
Q. 1 If $\sin ^{2} \theta-3 \sin \theta+2=0$, then find the value of $\theta\left(0^{\circ} \leq \theta \leq 90^{\circ}\right)$.

Ans
$\times 1.45^{\circ}$
$\times 2.0^{\circ}$
$\times 3.60^{\circ}$

- $4.90^{\circ}$
Q. 2 The LCM of 1.2 and 2.7 is:

Ans $\times 1.5 .4$
2. 10.8
3.1 .08
4.32 .4
Q. 3 The radius of a right circular cylinder is four times of its height. If the height of the cylinder is 14 cm , then what is the volume of cylinder?
Ans
$\times 1.15468 \mathrm{~cm}^{3}$
2. $14262 \mathrm{~cm}^{3}$
3. $137984 \mathrm{~cm}^{3}$
4. $11296 \mathrm{~cm}^{3}$
Q. 4 What is the rate of interest per annum for simple interest at which Rs. 880 amounts to Rs. 913 in $1 \frac{1}{2}$ years?

Ans
$\times 1.2 \frac{2}{3} \%$
$\times 2.2 \frac{1}{4} \%$
3. $2 \frac{1}{2} \%$
× $4.2 \frac{1}{3} \%$
Q. 5 A number is decreased by $20 \%$ to get another number. The number so obtained is increased by $200 \%$ to get a third number. The difference of the third number and the original number is what percentage more or less than the difference of second and the third number?

Ans
X 1. More, 15.7 Percent
X 2. Less, 15.7 Percent
X 3. More, 12.5 Percent
4. Less, 12.5 Percent
Q. 6 Any six-digit number that is formed by repeating a three-digit number, is always divisible by:
Ans
< 1.111
2. 1001
$\times 3.19$
4. 101
Q. 7 The printed price of a TV set is ₹ 14,500 . It is sold for ₹ 10,000 with two consecutive discounts. If the first discount is $10 \%$, then what is the second discount?
Ans

1. $23.37 \%$

X 2. 25.37\%
X 3. 20.37\%
4. $27.37 \%$
Q. 8

If $a+\frac{1}{a}=5$, then what is the value of $a^{3}+\frac{1}{a^{3}}$ ?
Ans

- 1.110
$\times 2.15$
$\times 3.105$
X4.-10
Q. 9 The area of a triangle is $96 \mathrm{~cm}^{2}$ and the ratio of its sides is $6: 8: 10$. What is the perimeter of the triangle?
Ans
1.48 cm
$\times 2.56 \mathrm{~cm}$
3.64 cm
4.44 cm
Q. 10 The radii of the ends of a frustum of a cone 7 cm high are 5 cm and 3 cm . Find its volume correct to one decimal place.
(Use $\pi=\frac{22}{7}$ )
Ans

1. $345.6 \mathrm{~cm}^{3}$
2. $359.3 \mathrm{~cm}^{3}$
3. $379.3 \mathrm{~cm}^{3}$
4. $369.3 \mathrm{~cm}^{3}$
Q. 11 A boat covers a certain distance against the stream in 9 hours 36 min and it covers the same distance along the stream in 6 hours. What is the ratio of the speed of the boat in still water to that of the stream?

Ans

1. $13: 3$
2. $9: 2$
3. 11:6
4.8:5
Q. 12 Raju, Shobh and Mohan can do a work in 15 days, 20 days and 25 days respectively. In how many days, will the work be finished, if they do it on alternate days?

Ans

1. $15 \frac{9}{10}$ days
2. $18 \frac{7}{10}$ days

X 3. $21 \frac{7}{10}$ days
4. $18 \frac{9}{10}$ days
Q. 13

What is the value of $a^{2}+b^{2}+c^{2}-2 a b-2 b c+2 c a ?$

Ans
$\times 1 \cdot(2 a+b+c)^{2}$
2. $(a-b+c)^{2}$
3. $(a-b-2 c)^{2}$
4. $(a+2 b-c)^{2}$
Q. 14 A jeep travels to a place 300 km away at an average speed of $60 \mathrm{~km} / \mathrm{h}$ and returns at a speed of $30 \mathrm{~km} / \mathrm{h}$. What is the average speed (in $\mathrm{km} / \mathrm{h}$ ) for the whole journey?

Ans
$\times 1.75$
2. 80
3. 40
4. 60
Q. 15 The table given below shows the number of people in different states.

| States | Number of people |
| :---: | :---: |
| F | 474 |
| G | 500 |
| H | 444 |
| I | 495 |
| J | 580 |

What is the average number of people in all the states?
Ans
X 1.396 .5
2. 482.5
3. 498.6
4. 476.6
Q. 16 The average age of a man and his son is 55 years. The ratio of their ages is $7: 4$, respectively. What will be the ratio of their ages after 6 years?
Ans

1. $1: 2$
2. $12: 7$
3. $25: 17$
4. $38: 23$
Q. $17 \Delta \mathrm{ABC}$ is a right-angle triangle at B and $\tan \mathrm{A}=\frac{3}{4}$, then $\sin \mathrm{A}+\sin \mathrm{B}+\sin \mathrm{C}$ will be equal to:

Ans
(1. $2 \frac{4}{5}$
2. $2 \frac{2}{5}$
$\times 3.3 \frac{1}{5}$
$\times 4.1 \frac{1}{5}$
Q. 18 A dishonest dealer professes to sell his goods at cost price but uses a false weight and thus gains $15 \%$. For a kilogram, he uses a weight of $\qquad$ (rounded off to one digit after decimal).
Ans
$X 1.833 .3 \mathrm{gm}$
2. 876.7 gm
3. 869.6 gm
4. 898.33 gm
Q. 19 Study the given graph and table and answer the following question.

Data of different states regarding population of states in the year 1998


Total population of the given states $=32760000$

| States | Sex and literacy wise Population Ratio |  |  |  |
| :--- | ---: | ---: | :---: | :---: |
|  | Sex |  | Literacy |  |
|  | M | F | Literate | Illiterate |
| Arunachal Pradesh | 5 | 3 | 2 | 7 |
| Madhya Pradesh | 3 | 1 | 1 | 4 |
| Delhi | 2 | 3 | 2 | 1 |
| Goa | 3 | 5 | 3 | 2 |
| Bihar | 3 | 4 | 4 | 1 |
| Uttar Pradesh | 3 | 2 | 7 | 2 |
| Telangana | 3 | 4 | 9 | 4 |

What was the number of males in Bihar in the year 1998?
Ans
X 1. 1,34,450
2. 1,64,440
3. 1,44,440
4. 1,54,440
Q. 20 If $\frac{x}{8}+\frac{8}{x}=1$, then the value of $x^{3}$ is:

Ans
X 1. -256
2. -512
3. 256
4. 512
Q.21 A coconut tree swings with the wind in such a manner that the angle covered by its trunk is 18 degrees. If the topmost portion of the tree covers a distance of 44 metres, find the length of the tree.
Ans

- 1.120 metres

2. 210 metres
3. 140 metres
4. 70 metres
Q. 22 The following table shows the exports of three companies P, Q and R from 2015 to 2019.

| $\text { Company/years } \leftrightarrows$ | 2015 | 2016 | 2017 | 2018 | 2019 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| P | 2000 | 1000 | 2000 | 3000 | 4000 |
| Q | 4000 | 5000 | 4000 | 5000 | 3000 |
| R | 3000 | 2000 | 4000 | 4000 | 5000 |

Which of the following years has the highest total exports from the three companies together?
Ans

1. 2019
$\times 2.2017$
X 3.2015
X4. 2016
Q. 23 If $C_{1}, C_{2}$ be the centres of two circles and $r_{1}, r_{2}$ be the respective radii such that the distance between the centres is equal to the sum of the radii of the two circles, find the number of common tangents.
Ans
$\times 1.4$
$\times 2.2$
$\times 3.1$
4.3
Q. $24 \frac{1+\sin \theta}{\cos \theta}$ is equal to which of the following (where $\left.\theta \neq \frac{\pi}{2}\right)$ ?

Ans
$X_{1} \cdot \frac{1+\cos \theta}{\sin \theta}$
X $2 \cdot \frac{\tan \theta+1}{\tan \theta-1}$
X 3. $\frac{\tan \theta-1}{\tan \theta+1}$
4. $\frac{\cos \theta}{1-\sin \theta}$
Q. 25 Study the given graph and answer the following question.


If $35 \%$ of the lecturers recruited in state B in the year 2021 were male, what was the number of females recruited in state B in that year?
Ans
X 1.3845
2. 3575
$\times 3.3590$
$\times 4.5500$

## Section : English Comprehension

Q. 1 Rearrange the parts of the sentence in correct order.

Peer pressure
P. when it comes to choosing the right
Q. course and, therefore, career path
R. and lack of guidance are some of
$S$. the reasons for indecisiveness
Ans
X 1. SPQR
X 2. QSPR
3. RSPQ
4. PQRS
Q. 2 Select the most appropriate ANTONYM of the word 'STRANGE' from the given sentence.

The intriguing journal took a back place once more to the more mundane events at the Ouray inn.
Ans
X 1. Events
X 2. Intriguing
2. Mundane
4. Place
Q. 3 Select the sentences that contains no spelling errors.

Ans $\times 1$. People suffering from edzema have allergies with red and itchy skin.
X 2. People suffering from ekzema have allergies with red and itchy skin.
3. People suffering from eczema have allergies with red and itchy skin.
4. People suffering from ekezema have allergies with red and itchy skin.
Q. 4 Select the option that expresses the given sentence in active voice.

Three novels and two story books had been written by him before 2020.
Ans
X 1. He has been writing three novels and two story books before 2020.
2. He had been writing three novels and two story books before 2020.
3. He had written three novels and two story books before 2020.

X 4. He wrote three novels and two story books before 2020.
Q. 5 Select the most appropriate synonym of the given word.

Irrevocable
Ans
X 1. Unmediated
X 2. Congruent
3. Irreversible
4. Irresponsive
Q. 6 Select the most appropriate option to fill in the blank.

The sergeant could not stand the weather because it was $\qquad$ cold.

Ans

1. bitterly
2. carefully
3. smoothly
4. cautiously
Q. 7 The following sentence has been divided into segments. One of them may contain an error. Select the segment that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

No talking / on the dinner table / is an absolute rule.
Ans
X 1. No talking
2. No Error
3. on the dinner table
4. is an absolute rule.
Q. 8 Select the most appropriate meaning of the underlined idiom.

The sailor tells great tales of adventure that you should take with a grain of salt.
Ans

1. Great admiration
2. Great patriotism
3. Not take too seriously
4. Be afraid to refrain from
Q. 9 Rearrange the parts of the sentence in correct order.

Birds' heart, lungs and
P. uptake and intensive exertion compared
Q. to humans, which enables them to function
R. efficiently at these very high altitudes
S. muscles are more efficient for oxygen

Ans
X 1. QRPS
X 2. PRQS
3. SPQR

X 4. QSRP
Q. 10 Select the option that can be used as a one-word substitute for the given group of words.

Something that is capable of being accomplished
Ans

1. Feasible
2. Untenable
3. Irrevocable
4. Eligible
Q. 11 Select the option that expresses the given sentence in passive voice.

They were preparing banners with different designs for the sports meet.
Ans

1. Banners were being prepared by them with different designs for the sports meet.
2. Banners have prepared by them with different designs for the sports meet.
3. Banners had been prepared by them with different designs for the sports meet.
4. Banners were prepared by them with different designs for the sports meet.
Q. 12 Select the most appropriate meaning of the underlined idiom in the given sentence.

The anxious duke was found strolling in the garden to and fro.
Ans

1. From north to south

X 2. From west to east
3. Forward and backward

X 4. Upward and downward
Q. 13 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. Basically, "smart farming" is applying information and data technologies for optimizing complex farming systems.
Q. With these tools, farmers can monitor field conditions without going to the field.
$R$. The focus is on access to data and how farmers can use the collected information
intelligently.
S. The technology used in smart farming range from loT and robotics to drones and AI.

Ans
X 1.RSQP
X 2. PQSR
3. PRSQ

X4.SPQR
Q. 14 Select the most appropriate ANTONYM of the given word.

Encourage
Ans
X 1. Boost
X 2. Inspire
X 3. Energise
4. Dishearten
Q. 15 Select the option that can be used as a one-word substitute for the given group of words.

The scientific study of plants and their structure
Ans
X 1. Plantation
X 2. Environment
X 3. Biology

- 4. Botany
Q. 16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The number of students / attending their classes / are constantly decreasing / in our university.
Ans
X 1. The number of students
2. attending their classes
3. in our university
4. are constantly decreasing
Q. 17 Select the INCORRECTLY spelt word in the following sentence.

The problematic and convoluted situation concerning Rakhtim's job is likely to exhilarate in the forseeable future.
Ans
X 1. convoluted
2. forseeable
3. problematic
4. exhilarate
Q. 18 Select the most appropriate ANTONYM of the given word.

Appropriate
Ans
X 1. Transparent
2. Improper
3. Salient
4. Disturbing
Q. 19 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
Kajol is one age-defying beauty and her sari collection is worth $\qquad$ -.
Ans

1. bookmarking
2. repudiating

X 3. flirting
$\times 4$. renouncing
Q. 20 Select the correct indirect form of the given sentence.

Ramita said, "I wish I didn't have to meet my step-mother."
Ans
X 1. Ramita said she wished she hadn't have to meet her step-mother.
2. Ramita said she wished she didn't meet her step-mother.
3. Ramita said she wished she didn't have to meet her step-mother.
4. Ramita said she wished hadn't met her step-mother.

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music can improve mood, decrease pain and anxiety, and facilitate opportunities for emotional expression. Research (1) $\qquad$ that music can benefit our physical and mental health in numerous ways. Music can (2) $\qquad$ the brain's production of the hormone dopain. This increased dopamine production helps (3) $\qquad$ feelings of anxiety and depression. Music
is processed directly by the amygdala, which is the part of the brain (4) $\qquad$ in mood and emotions. By reducing stress levels and providing a strong competing stimulus to the pain (5) that enter the brain, music therapy can assist in pain management.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank 1.

Ans
$\times 1$ interprets
2. suggests
$\times$ 3. dreams
$X 4$. focuses

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music can improve mood, decrease pain and anxiety, and facilitate opportunities for emotional expression. Research (1) $\qquad$ that music can benefit our physical and mental health in numerous ways. Music can (2) $\qquad$ the brain's production of the hormone dopamine. This increased dopamine production helps (3) $\qquad$ feelings of anxiety and depression. Music is processed directly by the amygdala, which is the part of the brain (4) $\qquad$ in mood and emotions. By reducing stress levels and providing a strong competing stimulus to the pain (5) that enter the brain, music therapy can assist in pain management.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank 2.

Ans
X 1. provide
X 2. furnish
$X$ 3. exhaust
4. boost

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music can improve mood, decrease pain and anxiety, and facilitate opportunities for emotional expression. Research (1) $\qquad$ that music can benefit our physical and mental health in numerous ways. Music can (2)
$\qquad$ that increased dopamine production helps (3) the brain's production of the hormone dopamine. This is processed directly by the amygdala, which is the part of the brain (4) $\qquad$ in mood and emotions. By reducing stress levels and providing a strong competing stimulus to the pain (5)
$\qquad$ that enter the brain, music therapy can assist in pain management.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank 3.

Ans
X 1. intensify
X 2. amend
X 3. enhance
4. relieve

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music can improve mood, decrease pain and anxiety, and facilitate opportunities for emotional expression. Research (1) $\qquad$ that music can benefit our physical and mental health in numerous ways. Music can (2) $\qquad$ the brain's production of the hormone dopamine. This increased dopamine production helps (3) $\qquad$ feelings of anxiety and depression. Music is processed directly by the amygdala, which is the part of the brain (4) $\qquad$ in mood and emotions. By reducing stress levels and providing a strong competing stimulus to the pain (5) that enter the brain, music therapy can assist in pain management.

SubQuestion No: 24
Q. 24 Select the most appropriate option to fill in blank 4.

Ans

1. involved
2. concerned
3. obsessed
4. accompanied

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Music can improve mood, decrease pain and anxiety, and facilitate opportunities for emotional expression. Research (1) $\qquad$ that music can benefit our physical and mental health in numerous ways. Music can (2)
$\qquad$ that increased dopamine production helps (3) the brain's is processed directly by the amygdala, which is the part of the brain (4) $\qquad$ in mood and emotions. By reducing stress levels and providing a strong competing stimulus to the pain (5)
$\qquad$ that enter the brain, music therapy can assist in pain management.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank 5.

Ans
X 1. deter
2. signals

X 3. deform
X 4. substance

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WwW.HaryanaJobs.in |
| Venue Name | iON Digital Zone IDZ Powai |
| Exam Date | 13/12/2022 |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 1 '.
 Figure 1 Figure 2


Figure 3
Ans
$\times 1.4$
2.3
3. 2
$\times 4.6$
Q. 2 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

## Statements:

I. Some $P$ are K.
II. No $K$ is $T$.

Conclusion:
I. All $P$ are T.
II. All T are K.
III. Some $P$ are not $T$.

Ans
X 1. Only conclusion II follows
2. Only conclusion III follows
$\times 3$. All conclusion follows
X 4. Both conclusions II and III follows
Q. 3 In a certain code language, 'FROST' is written as ' 156 ' and 'CANDLE' is written as ' 78 '. How will 'SCREAM' be written in that language?

Ans
-1. 115
2. 89
3. 118
4.59
Q. 4 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row - 12, 7, 32
Second row-17, 13, 33
Third row - 14, 8, ?
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
Ans

1. 38
$\times 2.35$
$\times 3.43$
2. 42
Q. $5 P+Q$ means ' $P$ is the father of $Q$ '
$P-Q$ means ' $P$ is the mother of $Q$ '
$P^{*} Q$ means ' $P$ is the sister of $Q$ '
$P \% Q$ means ' $P$ is the brother of $Q$ '
If $A-B \% C$ * $D+E$, then how is $A$ related to $E$ ?
Ans
X 1. Mother
X 2. Father's sister
X 3. Sister
3. Father's mother
Q. 6 By Interchanging the given two numbers which of the following equation will be not correct?
9 and 6
Ans
X1.7+6×4 $\div 9-8=5$
X2. $6 \times 8-9 \div 3+5=75$

- $3.9 \times 7+4 \div 1-6=38$

X $4.7 \times 6 \div 3+9-8=19$
Q. 7 Which of the following calendars will be the same as the calendar for the year 2003?

Ans

- 1.2014

X 2.2013
X 3.2012
X 4.2011
Q. 8 Which of the following letter clusters will replace the question mark (?) and complete the following letter cluster series? DW, FU, HS, JQ, LO, ?
Ans
X 1.NN
X 2. MN
3. NM
$\times 4 . \mathrm{NO}$
Q. 9 If $\mathrm{S}-\mathrm{T}$ means that S is the mother of $\mathrm{T}, \mathrm{S} \times \mathrm{T}$ means that S is the father of $\mathrm{T}, \mathrm{S}+\mathrm{T}$ means that $S$ is the sister of $T$, then which of the following expression shows that $P$ is the mother of $R$ ?

Ans

- 1. $Q-P+R$

2. $P-Q+R$
3. $P \times Q+R$
4. $R+Q-P$
Q. 10 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.

## M

4 erdnKLt

## N

Ans



Q. 11 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Flock: Birds :: Swarm : ?
Ans
X 1. Rain
2. Bees

X 3. Trees
$\times 4$. Flowers
Q. 12 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
$8: 48$ :: ? : 143 :: 15 : 195
Ans

1. 13
2. 17
3. 19
4. 11
Q. 13 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:

- All toys are Lego.
- No block is Lego.
- Some puzzles are blocks.

Conclusions:
I. Some Lego are puzzles.
II. No Lego is a block.
III. Some toys are blocks.

Ans

1. Only conclusion II follows
2. Only conclusion I follows
3. Only conclusion I and II follow
4. Only conclusion I and III follow
Q. 14 Select the set in which the numbers are related in the same way as are the numbers of the following set.
$(5,2,23)$
$(6,2,34)$
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding /subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
Ans
X $1 .(3,3,3)$
$\times 2 .(3,2,9)$
X $3 .(3,5,11)$
5. $(3,2,7)$
Q. 15 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Drama : Stage :: Trial : ?
Ans
X 1. Police station
X 2. Jail
X 3. Platform
6. Court
Q. 16 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans
X 1. OQS
2. JLN
3. HJL
4. MOP
Q. 17 Select the figure that will replace the question mark (?) in the following figure series.


Ans

$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 18 In a certain code language, 'YOU' is written as ' 71 ' and 'TOO' is written as ' 60 '. How will 'SIT' be written in that language?
Ans
X 1.90
X 2.96

- 3.58
$\times 4.94$
Q. 19 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, CTFZ, ELIV, GDLR, ?
Ans
X 1.ITOQ
X 2. QMQR
X 3. IMOQ

4. IVON
Q. 20 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some
Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation.
Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X1.10-100
5. 8-62
$\times 3.6-36$
X4.4-16
Q. 21 Which of the following numbers will replace the question mark (?) in the given series? 31, ?, 40, 49, 61, 76

Ans
$\times 1.36$

- 2.34
$\times 3.35$
$\times 4.37$
Q. 22 Select the figure from among the given options that can replace the question mark (?) in the following series


Ans

$\times 3$

$\times 4$

Q. 23 Select the option figure which is embedded in the given figure (rotation is NOT allowed).


Ans
$\times 1$.

2.

$\times 3$.

$\times 4$.

Q. 24 By Interchanging the given two numbers which of the following equation will be correct?
2 and 8
Ans
X $1.8 \div 1+4 \times 2-3=18$
X $2.7 \times 2+6 \div 3-8=60$
X $3.2 \times 4-8+6 \div 3=33$
2. $8 \times 4+6-2 \div 1=6$
Q. 25 Which two signs should be interchanged to make the given equation correct?

95 * $5+19 \div 2-21=36$
Ans

- 1. $\div$ and *

X2. + and -
X $3 . \div$ and -
人4. + and*

Section: General Awareness
Q. 1 $\qquad$ is the only continent through which the tropic of cancer, the equator and the tropic of capricorn passes.
Ans X 1. North America
2. Africa

X 3. Europe
4. Asia
Q. 2 Which of the following is NOT correct about the jurisdiction of the High Court?

Ans $\times 1$. It controls the subordinate courts within its jurisdiction.
X 2. It has the power of judicial review.
3. It provides advisory opinion to the President of India.

X 4. It has writ jurisdiction.
Q. 3 Who released a special stamp entitled 'Wheat Revolution' in July 1968?

Ans
X 1. Mahatma Gandhi
X 2. Jawaharlal Nehru
3. Indira Gandhi

X 4. Motilal Nehru
Q. 4 Who among the following ruled in India between 1266 and $1287 ?$

Ans
X 1. Qutub-ud-din-Aybak
X 2. Aram Shah
3. Shams-ud-din-Iltutmish
4. Ghiyasuddin Balban
Q. 5 Which of the following is NOT mentioned as a Fundamental Right in the Constitution of India?
Ans
X 1. Right to education
2. Right to property
3. Right to freedom
4. Right against exploitation
Q. 6 In February 2022, Maharashtra government announced 'Hope Express' initiative to

Ans
$\qquad$ _.

1. prevent cancer
2. improve drainage system
3. manage industrial waste
4. improve air quality
Q. 7 Who among the following was awarded the National Nritya Shiromani Award 2022?

Ans
X 1. Radha Reddy
2. Aparna Satheesan

X 3. Usha Srinivasan
X 4. Deepa Sashindran
Q. 8 Which food requires a longer small intestine to digest food?

Ans
X 1. Lamb
2. Eggs
3. Grass
4. Chicken
Q. 9 Yellow card in badminton indicates:

Ans
$X$ 1. fault for misconduct
2. suspension for misconduct
3. warning for misconduct
4. disqualified for misconduct
Q. 10 The national Archives of India came up in the $\qquad$ .
Ans
X 1.1930s
X 2. 1910s

- 3.1920s

X4.1900s
Q. 11 Personal disposable income (PDI) can be defined as $\qquad$ .

Ans $\quad$ 1. PI + Personal tax payments +Non-tax payments
2. PI + Personal tax payments - Non-tax payments
3. PI - Personal tax payments - Non-tax payments
4. PI - Personal tax payments + Non-tax payments
Q. 12 In India the 1st census was held in the year $\qquad$ .
Ans

- 1.1872

X 2. 1860
X 3.1900
X4. 1920
Q. 13 The Kunbi dance is performed by the tribal community of $\qquad$ .

Ans $\times 1$. Sikkim
X 2. Tamil Nadu
X 3. Uttar Pradesh
4. Goa
Q. 14 A cyclone is known by different names in different parts of the world. In Philippines it is called as $\qquad$ .
Ans $\quad \times 1$. willy-willy
2. hurricane
3. typhoon
4. mango shower
Q. 15 Who among the following defeated Mughal emperor Humayun at Chausa?

Ans $\times 1$. Mirza Hakim
2. Safavid Shah
3. Sher Khan
4. Mirza Kamran
Q. 16 Prime Minister Narendra Modi said, "Seema Darshan Project adds a new dimension to the tourism sector". This project will boost tourism in $\qquad$ _.
Ans

1. Gujarat
2. Uttar Pradesh
3. Rajasthan
4. Jammu and Kashmir
Q. 17 $\qquad$ has become the first city in the country to get a processed steel slag (industrial
waste) road.
Ans
5. Surat
6. Chennai
7. Kanpur
8. Shimla
Q. 18 Which country hosted the first ever Commonwealth Games in 1930?

Ans
X 1. Australia
X 2. New Zealand
X 3. England
4. Canada
Q. 19 The theory of plate tectonics proposes that the earth's lithosphere is divided into major and some minor plates.

Ans 1. 7
$\times 2.6$
$\times 3.12$
$\times 4.16$
Q. 20 Why does one get cramps after sudden physical activity?

Ans $\times 1$. The build-up of hydrochloric acid in our muscles during sudden activity causes cramps.
X 2. The pepsin enzyme releases chemicals that lead to cramps.
X 3. The oxygen molecules breaks down.
4. The build-up of lactic acid in our muscles during sudden activity causes cramps.
Q. 21 Match the elements in column A with the element group they belong to, in column B

| Column-A <br> (Element) | Column-B (Group of element in the <br> periodic table) |
| :--- | :--- |
| i. Na | a. Alkali metal |
| ii. Cu | b. Alkaline earth metal |
| iii. Mg | c. Transition metal |
| iv. He | d. Zero group element |

Ans
X 1. i-a, ii-d, iii-b, iv-c
X 2. i-a, ii-b, iii-c, iv-d
3. i-a, ii-c, iii-b, iv-d
4. i-d, ii-a, iii-b, iv-c
Q. 22 Abdul Karim Khan and Abdul Wahid Khan were the founders of the $\qquad$ gharana.
Ans
X 1. Jaipur - Atrauli
2. Gwalior
3. Agra
4. Kirana
Q. 23 Who among the following has the credit to invent and create a new style of 'Bharatanatyam'?

Ans

1. Yamini Krishnamurthy
2. Dr Padma Subrahmanyam
3. Rukmini Devi Arundale
4. Chinta Ravi Bala Krishna
Q. 24 Puhar or Kaveripattinam, was the port of which of the following dynasty?

Ans
$\times 1$. Cheras
2. Cholas
3. Pandyas
4. Vakatakas
Q. 25 National Dairy Research Institute is located at:

Ans

1. Karnal
2. Anand
3. Lucknow
4. Palampur

Section : Quantitative Aptitude
Q. 1 The HCF of three numbers 72, 108 and 2010 is:

Ans
$\times 1.18$

- 2.6
$\times 3.12$

4. 5
Q. 2 If $\sec \theta+\frac{1}{\cos \theta}=2$, find the value of $\sec ^{55} \theta+\frac{1}{\sec ^{55} \theta}$.

Ans

- 1.2
$\times 2.0$
$\times 3.1$
$\times 4.55$
Q. 3 The following bar chat shows the export of a certain commodity P in crore rupees between 2014 and 2020.


For how many years, there was less export of P than the average export of P ?
Ans
$\times 1.2$
$\times 2.1$
$\times 3.4$

- 4.3
Q. 4 The cost price of an article is ₹800. After allowing a discount of $10 \%$, a gain of $12.5 \%$ was made. The marked price of the article is:
Ans
X 1. ₹ 1,300
X 2. ₹1,200

3. ₹ 1,000
4. ₹ 1,100
Q. 5 The side of an equilateral triangle is 9 cm . What is the radius of the circle circumscribing this equilateral triangle?
Ans
5. $2 \sqrt{3} \mathrm{~cm}$
6. $5 \sqrt{3} \mathrm{~cm}$
7. $4 \sqrt{3} \mathrm{~cm}$
8. $3 \sqrt{3} \mathrm{~cm}$
Q. 6 Shiva's monthly salary is Rs.75,000. He spends Rs.12,000 on household items, Rs.14,000 on LIC and mutual funds, Rs.15,000 on his children's education, and keeps Rs.10,000 for miscellaneous expenses. His savings are Rs.21,000 per month and he donates the rest of the amount to an orphanage. The percentage of his income that he donates is:
Ans
X 1.3\%
X $2.6 \%$
X $3.8 \%$

- $4.4 \%$
Q. 7 The following line graph displays the ratio of exports to imports (in terms of money in ₹ crores) of company A from 2010 to 2015.
Study the graph carefully and answer the question based on the given line graph.
The line graph displaying the ratio of Exports to imports lin
terms of money in ₹ crores) of company A from 2010 to 2015


In how many years, the export of company A was more than the company's import?
Ans

1. Four
2. Two
3. Six
4. Three
Q. 8 If $\tan 40^{\circ}=\alpha$, then find $\frac{\tan 320^{\circ}-\tan 310^{\circ}}{1+\tan 320^{\circ} \cdot \tan 310^{\circ}}$.

Ans
$\times 1 \cdot \frac{1-\alpha^{2}}{\alpha}$
X2. $\frac{1+\alpha^{2}}{2 \alpha}$
3. $\frac{1-\alpha^{2}}{2 \alpha}$

X4. $\frac{1+\alpha^{2}}{\alpha}$
Q. 9 The table given below shows the foreign trade by two countries in 5 different years.

|  | Country |  |
| :---: | :---: | :---: |
| Years | L | M |
| Y1 | 250 | 125 |
| Y2 | 230 | 185 |
| Y3 | 155 | 275 |
| Y4 | 145 | 255 |
| Y5 | 115 | 170 |

What is the total foreign trade by country $\mathbf{M}$ in all the 5 years?
Ans

- 1.1010
$\times 2.1215$
$\times 3.505$
$\times 4.1005$
Q.10 A train travels at a speed of $18 \mathrm{~m} / \mathrm{s}$ in the first 5 minutes, covers 7.5 km in the next 10 minutes and covers 12 km in another 10 minutes. What is its average speed (in km/h, rounded off to 1 decimal place) for the entire journey?
Ans

1. 59.8
2. 71.2
3.45 .7
3. 64.6
Q. 11

If, $\frac{r}{13}+\frac{13}{r}=1$ then the value of $r^{3}$ is:
Ans
X 1. -2157
$\times 2.2197$
X 3.2157
4. -2197
Q. 12 If $\frac{a}{b}+\frac{b}{a}=-1$ and $a-b=2$, then the value of $a^{3}-b^{3}$ is:

Ans

1. 0
2. $\frac{1}{2}$
3. 1
4. -1
Q. 13 A person borrowed ₹2,000 at 5\% annual simple interest repayable in 3 equal annual installments. What will be the annual installment?
Ans
5. ₹ $730 \frac{10}{63}$
6. ₹ $840 \frac{9}{61}$
× 3. ₹ $640 \frac{11}{63}$
x4. ₹ $250 \frac{10}{63}$
Q. 14 Two persons $A$ and $B$ working separately can sanitise a building in 6 and 10 hours, respectively. They work in stretches of one hour alternately. If A begins at 8 a.m., then when will the work be finished?
Ans
$\times 1.9 \frac{1}{3} h$
7. $7 \frac{1}{3} \mathrm{~h}$

X 3. $6 \frac{1}{3} \mathrm{~h}$
X4. $8 \frac{1}{3} \mathrm{~h}$
Q. 15 The area of two similar triangles are $324 \mathrm{~cm}^{2}$ and $289 \mathrm{~cm}^{2}$, respectively. What is the ratio of their corresponding altitudes?

Ans

1. $\frac{17}{18}$
2. $\frac{17}{19}$
3. $\frac{19}{17}$
4. $\frac{18}{17}$
Q. 16

The pie-chart shows marks of a student in different subjects out of 100 .


The marks scored in Hindi and Mathematics are more than the marks scored in English and Science by:
Ans
$\times 1.35$

- 2.25
$\times 3.20$
< 4.30
Q. 17 Train A running at $81 \mathrm{~km} / \mathrm{h}$ takes 72 sec to overtake train $B$, when both the trains are running in the same direction, but it takes 36 sec to cross each other if the trains are running in the opposite direction. If the length of train $B$ is 600 metres, then find the length of train A. (in metres)
Ans
$\times 1.600$

2. 480
$\times 3.590$
$\times 4.900$
Q. 18 An airplane goes 14 km due east and then 48 km due north. How far is it from its initial position?
Ans
1.14 km
3. 48 km

- 3.50 km

4. 28 km
$Q .19$ If $\triangle A B C \cong \triangle P Q R$ and $\angle A B C=(x+60)^{\circ}, \angle P Q R=(85-4 x)^{\circ}$, and $\angle R P Q=(3 x+65)^{\circ}$, then the value of $\angle A B C$ in degree is:
Ans
$\times 1.15$
2.5
< 3.45
5. 65
Q. 20 If the number $6788934 a 4$ is divisible by 11 ,then find the smallest whole number in the place of a.
Ans
$\times 1.3$
2.4
3.5
6. 2
Q. 21 Ram sold an item costing Rs.1,250 at a gain of $18 \%$ to Ramesh. It was again sold by Ramesh to Shyam at a loss of $10 \%$. Find the selling price of Ramesh.

Ans
X 1.Rs.1,328.50
2. Rs.1,428.50
3. Rs. 1,427.50
4. Rs. $1,327.50$
Q. 22 The ratio of the present age of father to that of his son is $7: 2$. If after 10 years the ratio of their ages will become $9: 4$, then the present age of the father is:
Ans

1. 43 years
2. 35 years
3. 37 years
4.40 years
Q. 23 If $\tan ^{2} \theta+\tan ^{4} \theta=1$, then:

Ans

1. $\cot ^{2} \theta+\cot ^{4} \theta=1$
2. $\cos ^{2} \theta+\cos ^{4} \theta=1$
3. $\sin ^{2} \theta+\sin ^{4} \theta=1$
4. $\operatorname{cosec}^{2} \theta+\sec ^{4} \theta=1$
Q. 24 If the diameter of a solid hemisphere is 12.6 cm , then its volume is (take $\pi=\frac{22}{7}$ ):

Ans

1. $1,259 \mathrm{~cm}^{3}$
2. $987 \mathrm{~cm}^{3}$
3. $523.908 \mathrm{~cm}^{3}$
4. $1,235.621 \mathrm{~cm}^{3}$
Q. 25 Which of the following statement is correct?
I. The value of $100^{2}-99^{2}+98^{2}-97^{2}+96^{2}-95^{2}+94^{2}$
$-93^{2}+\ldots \ldots+22^{2}-21^{2}$ is 4840 .
II. The value of
$\left(k^{2}+\frac{1}{k^{2}}\right)\left(k-\frac{1}{k}\right)\left(k^{4}+\frac{1}{k^{4}}\right)\left(k+\frac{1}{k}\right)\left(k^{4}-\frac{1}{k^{4}}\right)$ is $k^{16}-\frac{1}{k^{16}}$.
Ans
X 1. Neither I nor II
X 2. Both I and II
X 3. Only II
5. Only I
Q. 1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

This package is ideal for infant teenager who are just getting started with babysitting.
Ans
X 1. youngest teenagers
2. younger teenagers

- 3. young teenagers

X 4. No substitution required
Q. 2 Select the option that can be used as a one-word substitute for the given group of words.

Making of a false document with a false signature
Ans
X 1. Ruse
2. Forgery

X 3. Insincerity
X4. Deception
Q. 3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

There can be precious / diamonds and metals / in the surface / just below you.
Ans
X 1. diamonds and metals
X 2. just below you.
3. in the surface

4 4. There can be precious
Q. 4 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. A glimpse of its rich cultural heritage can be found through the great monuments and other historical sites it has.
B. India has a vast cultural and linguistic diversity which make the country culturally rich.
C. These monuments and historical sites are the symbols of India's diversity.
D. Several historical sites and monuments are identified as UN Heritage Sites.

Ans
X 1. CDAB
X 2. BADC
2. BACD
$\times 4 . A B C D$
Q. 5 Rearrange the parts of the sentence in correct order. apart from generating
P. real income for players, play-to-earn
Q. games also create communities
R. where gamers and creators can meet, share
S. wisdom, and do deals with one another

Ans
X 1.RSQP
2. PQRS

X 3.PRQS
X4.SPRQ
Q. 6 Select the correct indirect form of the given sentence.

Farah said to her aunt, "I am studying contemporary art."
Ans
X 1. Farah told her aunt that she was study contemporary art.
2. Farah told her aunt that she is studying contemporary art.
3. Farah told her aunt that she had been studying contemporary art.
4. Farah told her aunt that she was studying contemporary art.
Q. 7 Select the correct passive form of the given sentence.

They welcomed Jane and Karan to the gathering.
Ans
$X$ 1. Jane and Karan is welcomed by them to the gathering.
2. Jane and Karan had been welcomed by them to the gathering.
3. Jane and Karan are welcomed by them to the gathering.
4. Jane and Karan were welcomed by them to the gathering.
Q. 8 Select the most appropriate ANTONYM of the underlined word in the context of the given sentence.

You should donate your old clothes to the poor.
Ans
$\times 1$. young
2. new
3. modern
4. fresh
Q. 9 Select the correct passive form of the given sentence. Has she completed the record?
Ans

1. Has the record been completed by her?
2. Has the record completed by her?
3. Has the record had been completed by her?
4. Has the record been complete by her?
Q. 10 Select the sentence with the appropriate use of preposition.

Ans
Х 1. The lion and the unicorn fought between the crown.
2. The lion and the unicorn fought for the crown.
3. The lion and the unicorn fought by the crown.
4. The lion and the unicorn fought up the crown.
Q. 11 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
To make your own gargle, $\qquad$ half a teaspoon of salt in a glass of lukewarm or partly cooled boiled water.
Ans

1. cease
2. cast
3. consolidate
4. dissolve
Q. 12 Select the most appropriate option to fill in the blank.

The class teacher made us wait after school to $\qquad$ some advice on how to attempt the board exam.
Ans
$X$ 1. leave
X 2. pay
3. give
4. deliver
Q. 13 Select the sentences that contains no spelling errors.

Ans $\quad$ 1. India has started the largest inocultaion drive in the world against Covid.
2. India has started the largest inoculation drive in the world against Covid.

X 3. India has started the largest inculation drive in the world against Covid.
X 4. India has started the largest inokulation drive in the world against Covid.
Q. 14 Select the option that can be used as a one-word substitute for the given group of words.

A list or collection of books or informative graphics
Ans
X 1. Bale
X 2. Hamlet
X 3. Gallery
4. Catalogue
Q. 15 Select the most appropriate idiom that can substitute the italicised words in the given sentence.

My mother said, "Make consistent progress for success."
Ans

1. slow and steady
2. make a habit
3. in and outs
4. do's and don'ts
Q. 16 Select the most appropriate meaning of the underlined idiom in the given sentence.

The intern aspired to understand the ins and outs of the operating systems of the institution.
Ans
X 1. Stern regulations
2. Prior conditions
3. Elaborate theories
4. Detailed description
Q. 17 Select the most appropriate synonym for the underlined word in the given sentence.

You also worked with another eccentric genius.
Ans
X 1. Middle
2. ecological
3. Peculiar
4. elusive
Q. 18 Select the most appropriate ANTONYM of the given word.

Incoherent
Ans
X 1. Gloomy
X 2. Apparent
X 3. Pensive
4. Rational
Q. 19 Select the option that is similar in meaning to the underlined word.

He declined the offer to join the Board of Directors.
Ans
X 1. Delayed
2. Rejected

X 3. Modified
4. Deferred
Q. 20 Identify the spelling error in the given sentence and select the option that rectifies the error.

Success is the continious journey towards the achievement of predetermined goals.
Ans

1. continuous
2. sucsess
3. gaols
4. achivement

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A hummingbird's brilliant throat colour is not caused by feather (1) $\qquad$ but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) $\qquad$ just how bright and colourful the throat may appear.
Hummingbirds cannot walk or hop, though their feet can be used to (3) $\qquad$ sideways while they are perched. These birds have evolved smaller feet to be lighter for more (4) $\qquad$ _
flying. They will use their feet for itching and (5) $\qquad$ , however.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. perspiration
X 2. deposition
3. sediment
4. pigment

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A hummingbird's brilliant throat colour is not caused by feather (1) $\qquad$ , but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) $\qquad$ just how bright and colourful the throat may appear.
Hummingbirds cannot walk or hop, though their feet can be used to (3) $\qquad$ sideways while
they are perched. These birds have evolved smaller feet to be lighter for more (4)
flying. They will use their feet for itching and (5) $\qquad$ , however.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans 1.influence
2. allure
3. intimidate
4. persuade

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A hummingbird's brilliant throat colour is not caused by feather (1) $\qquad$ but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) $\qquad$ just how bright and colourful the throat may appear.
Hummingbirds cannot walk or hop, though their feet can be used to (3) $\qquad$ sideways while
they are perched. These birds have evolved smaller feet to be lighter for more (4) $\qquad$ -
flying. They will use their feet for itching and (5) $\qquad$ however.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans
X 1. migrate
X 2. obtrude
$X$ 3.forage
4. scoot

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A hummingbird's brilliant throat colour is not caused by feather (1) $\qquad$ but rather by
iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) $\qquad$ just how bright and colourful the throat may appear. Hummingbirds cannot walk or hop, though their feet can be used to (3) $\qquad$ sideways while
they are perched. These birds have evolved smaller feet to be lighter for more (4) $\qquad$ -
flying. They will use their feet for itching and (5) $\qquad$ , however.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. slipshod
2. efficient
$\times$ 3. methodical
X 4. structured

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A hummingbird's brilliant throat colour is not caused by feather (1) $\qquad$ , but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) $\qquad$ just how bright and colourful the throat may appear. Hummingbirds cannot walk or hop, though their feet can be used to (3) $\qquad$ sideways while they are perched. These birds have evolved smaller feet to be lighter for more (4) flying. They will use their feet for itching and (5) $\qquad$ , however.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans

1. preening
2. devouring
3. flouncing
4. scintillating

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | TCS Gito Bitan |
| Exam Date | 13/12/2022 |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 In a certain code language, 'DRAWING' is written as 'CQZVHMF' and 'TURQUOISE' is written as 'STQPTNHRD', how will 'COLOR' be written in that language?

Ans

1. BNKNQ
2. $B M K M Q$
3. ANKNQ
4. AMKMQ
Q. 2 Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statements.
Statements:
Few chips are cakes.
All cakes are ice creams.
All ice creams are sweets.
Conclusions:
(I) Some sweets are cakes.
(II) Some ice creams are cakes.
(III) All cakes are sweets.

Ans
X 1. Only conclusion I follows
2. Only conclusion II follows
3. All conclusions I, II and III follow
4. Either conclusion I or conclusion III follows
Q. 3 After arranging the given words according to dictionary order, which word will come at
'Third' position?

1. Unaffected
2. Unarmed
3. Unasked
4. Unattached
5. Unauthorized

Ans $\quad \times 1$. Unauthorized
2. Unarmed
3. Unasked
4. Unattached
Q. 4 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(60,17,13)$
$(62,14,17)$
Ans

1. $(56,15,13)$
$\times 2 .(43,9,12)$
X $3 .(55,18,9)$
$\times 4 .(57,15,14)$
Q. 5 Which letter cluster will replace the question mark (?) to complete the given series?

EDIC, FGJF, ?, HMLL, IPMO
Ans
X 1. GIKI
X 2. GJKJ
X 3. GJLI
2. GJKI
Q. 6 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
$\div$ and $\times, 1$ and 3
l. $6+4-9 \times 3 \div 1$
II. $\mathbf{4 \times 3 - 1 + 8 \div 2}$

Ans $\times 1.26,17$
2. $-17,17$
(3.9,18
4.11, 15
Q. 7 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
GAR, AXS, UUT, ORU, ?
Ans

1. IOV
2. MOV
3. QRT
4. IMR
Q. 8 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. WPUQ
5. MEKF
6. BXCY
7. ZLXM
Q. 9 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1. (57-53-49)
8. (60-56-52)
9. ( $50-46-42$ )
10. $(47-43-37)$
Q. 10 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$78+456-45 \times 12 \div 4=519$
Ans
11. 12 and $4,-$ and $\times$
12. 78 and $456, \div$ and $\times$
13. 45 and $12,+$ and $\div$
4.456 and $45, \div$ and -
Q. 11 In the following question, select the missing number from the given series.

123, 125, 127, ?, 131, 133
Ans
$\times 1.128$
2. 129
$\times 3.130$
4. 145
Q. 12 Select the option figure in which the given figure is embedded (rotation is NOT allowed).


Ans

Q. 13 If $A \times B$ means that $A$ is the father of $B, A-B$ means that $A$ is the mother of $B, A+B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the son of $P$ ?
Ans

1. $P \times Q+R$
2. $Q \times P+R$
3. $P+R \times Q$
4. $P \times Q-R$
Q. 14 U \$ V means ' $U$ is the sister of $V$ ' $\mathbf{U}$ @ $V$ means ' $U$ is the husband of $V$ '
$U$ * $V$ means ' $U$ is the son of $V$ '
$U \div V$ means ' $U$ is the mother of $V$ '
If $\mathbf{O} \$ \mathbf{P}$ * $B$ @ $F$, how is $\mathbf{O}$ related to $F$ ?
Ans
5. Sister
6. Brother
7. Daughter
8. Daughter-in-law
Q. 15 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All O are C.
II. All C are D.

Conclusions:
I. Some C are 0.
II. Some D are C.
III. No O is D.

Ans
X 1. Both conclusions II and III follows
X 2. All conclusion follows
3. Both conclusions I and II follows

X 4. Both conclusions I and III follows
Q. 16 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
ABILITY : LIBAYTI :: CHRONIC : ORHCCIN :: HEAVILY : ?
Ans

1. VAEHYLI
2. HAVIEYL
3. AEVHLYI
4. LYIAVHE
Q. 17 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 18 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 2 '.


Figure 1
$\times 1.6$
$\times 2.3$

- 3.4
$\times 4.1$
Q. 19 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?
$[(\sqrt{256}) \div 4]^{3}+(6)^{2}-(12 \times 8)+66+(36 \div 12)=65$
Ans
$\times 1.6$ and 8
X 2.66 and 65

2. 3 and 8
$\times 4.66$ and 36
Q. 20 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans
1.

$\times 2$

$\times 3$.

$\times 4$

Q. 21 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(4,6,9)$
$(25,10,4)$
Ans
X 1. $(23,3,32)$
$\times 2 .(45,20,19)$
2. $(6,36,216)$

X4. $(98,7,89)$
Q. 22 In a certain code language, 'TOP' is coded as '102' and 'BAD' is coded as '14'. How will 'DOG' be coded in that language?

Ans
< 1.51
2. 52
$\times 3.53$
4.50
Q. 23 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
LAMP : RQGT :: GAME : GQGO :: GOAT : ?
Ans
$\times 1$. ouev
X 2. EVUO

- 3. VEUO

X4.ACDF
Q. 24 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
6:12:: 9 : 21 :: 3 : ?
Ans

- 1.3
$\times 2.7$
$\times 3.5$
$\times 4.8$
Q. 25 Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).


Ans
$\times 1$.
$\times 2 . L^{-}$
×3.~


Section : General Awareness
Q. 1 Who among the following won the Best Music Director award at the $67^{\text {th }}$ National Film Award Ceremony?
Ans
X 1. Gopi Sundar
2. D. Imman

X 3. Mani Sharma
X 4. Devi Sri Prasad
Q. 2 $\qquad$ are known as narrow money.
Ans . M1 and M2

X 2. M2 and M4
$X$ 3. M3 and M2
X 4. M1 and M4
Q. 3 Samudragupta's mother belonged to which of the following gana?

Ans
X 1. Koliya
2. Lichchhavi

X 3. Sakya
X 4. Vajji
Q. 4 Padma Subrahmanyam is the exponent of which of the following Indian dance forms?

Ans
X 1. Kathakali
2. Bharatanatyam
3. Kathak
4. Mohiniattam
Q. 5 The crust is the Earth's outermost layer that is less than $\qquad$ percent of Earth by mass, with oceanic crust and continental crust often consisting of more felsic rocks.
Ans $\times 1.5$
2. 1
$\times 3.2$
$\times 4.10$
Q. 6 Which of the following jurisdictions of the Supreme Court allows it to settle disputes between the centre and state and amongst states?
Ans

1. Appellate
2. Advisory
3. Writ
4. Original
Q. 7 Cells of meristematci tissue lack $\qquad$ -.
Ans
$X$ 1. Cellulose wall
5. Vacuoles

X 3. cytoplasm
X 4. Nuclei
Q. 8 The upper portion of the mantle is called $\qquad$ .
Ans
< 1. lithosphere
2. stratosphere
3. mesosphere
4. asthenosphere
Q. 9 Guru Purnima, a festival celebrated by Hindus, Jains and Buddhists in India falls in which month of Hindu calendar?
Ans
X 1. Kartika
2. Vaisakha
3. Sravana
4. Ashadha
Q. 10 In May 2022, the Inter-State Council, which works to promote and support cooperative federalism in the country, has been reconstituted. Who will be the chairman of this council?
Ans
X 1. President of India
X 2. Chief Justice of India
3. Prime Minister of India

X 4. Finance minister of India
Q. 11 Which of the following festivals is mainly celebrated in Arunachal Pradesh?

Ans
X 1. Hornbill
2. Ambubachi
3. Wangala
4. Solung
Q. 12 The poverty ratio has declined to $\qquad$ in 2011-12 in Urban India.
Ans
X 1. 21.4 percent
2. 26.4 percent

X 3. 23.4 percent
4. 28.4 percent
Q. 13 At which of the following places was the FIFA Men's World Cup, held in 2018?

Ans

```
1. Russia
```

2. China
3. Turkey
4. Columbia
Q. 14 In which year, James Mill Published a massive three-volume work, "A History of British India"?
Ans
X1. 1815
$\times 2.1807$
X 3.1805

- 4.1817
Q. 15 The ISSF Junior World Cup 2022 was held in $\qquad$ -

Ans

1. Germany
2. Iran
3. Turkey
4. UAE
Q. 16 How many delegates attended the first session of Congress in 1885?

Ans
X 1.62
2. 78
3. 68
4. 72
Q. 17 Effect of The Industrial Policy, 1956 on industries was $\qquad$ -
Ans

1. industries started to get diversified

X 2. India become self-sufficient in industrial goods
X 3. imports of those goods which could be produced in India itself was avoided
X 4. industries share fell in the GDP during 1991
Q. 18 Which of the following revolutionary groups' members assassinated Assistant Superintendent of Police John Saunders in 1927?
Ans
X 1. Hindustan Sewa Dal
2. Hindustan Republican Association

X 3. Abhinav Bharat Secret Society
4. Anushilan Samiti
Q. 19 What is the correct percentage by volume of various gases in Earth's atmosphere?

Ans $\chi 1.20 .95 \%$ nitrogen, $78.09 \%$ oxygen, and $0.04 \%$ carbon dioxide and other greenhouse gases.
X 2. 10.95\%nitrogen, 88.09\% oxygen, and 0.09\% carbon dioxide and other greenhouse gases.
X 3. $10.95 \%$ nitrogen, $78.09 \%$ oxygen, and $0.03 \%$ carbon dioxide and other greenhouse gases.
4. $78 \%$ nitrogen, $21 \%$ oxygen, and $0.03 \%$ carbon dioxide and other greenhouse gases.
Q. 20 The Indian Antarctic Bill, 2022 prohibits which of the following activities in Antarctica?
I. Nuclear explosion
II. Introduction of non-sterile soil
III. Discharge of garbage

Ans $\times 1$. I and II
2. I, II and III

X 3. Only III
4. II and III
Q. 21 In organic chemistry, which of the following is an empirical rule used to predict the regioselectivity of electrophilic addition reactions of alkanes and alkynes?
Ans
X 1. Cornforth's rules
2. Bredt's rule
3. Markovnikov's rule
4. Baldwin's rules
Q. 22 Which crop does not require high rainfall and high temperature?

Ans
X 1. Rice
X 2. Jute
3. Maize

X 4. Cotton
Q. 23 India's first Olympic Values Education Programme (OVEP) was launched in $\qquad$ -.

Ans
X 1. Uttar Pradesh
$\times$ 2. Punjab
3. Odisha

X4. Haryana
Q. 24 According to Article 51 A (a) of the Constitution of India, it shall be the duty of every Indian citizen to abide by the $\qquad$ and respect its ideals and institutions.
Ans

1. constitution

X 2. secularism
3. socialism
4. democracy
Q. 25 In which of the following states of India is "MANAS" biosphere Reserve located?

Ans
X 1. Tripura
X 2. Manipur
3. Meghalaya
4. Assam
Q. 1 The table given below shows the cost price and selling of four different articles.

| Articles | Cost price | Selling price |
| :---: | :---: | :---: |
| J | 650 | 750 |
| K | 370 | 450 |
| L | 450 | 650 |
| M | 590 | 650 |

What is the difference between the average selling price and average cost price of all the articles?

Ans

1. 110
2. 160
3. 710
4. 140
Q. 2 Two stations $R$ and $S$ are 400 km apart from each other. A train leaves from $R$ to $S$ and simultaneously another train leaves from $S$ to $R$. Both trains meet after 10 hours. If the speed of the first train is $4 \mathrm{~km} / \mathrm{hr}$ more than the second train, then what is the speed of the slower train?
Ans
5. $18 \mathrm{~km} / \mathrm{hr}$
6. $26 \mathrm{~km} / \mathrm{hr}$
7. $16 \mathrm{~km} / \mathrm{hr}$
8. $22 \mathrm{~km} / \mathrm{hr}$
Q. 3 If $\tan (\alpha+\beta)=a, \tan (\alpha-\beta)=b$, then the value of $\tan 2 \alpha$ is :

Ans

1. $\frac{a+b}{1-a b}$
2. $\frac{a+b}{1+a b}$
3. $\frac{a-b}{1+a b}$
4. $\frac{a-b}{1-a b}$
Q. $4 P$ and $Q$ are two alloys of aluminium and copper. The ratios of aluminium and copper in $P$ and $Q$ are $5: 11$ and $3: 5$, respectively. If a third alloy is formed by mixing alloys $P$ and $Q$ in the ratio of $1: 3$, then aluminium is what percentage (rounded off to the nearest integer) of the copper in the third alloy?
Ans
X 1.63 Percent
5. 52 Percent
6. 48 Percent
7. 56 Percent
Q. 5 A certain sum of money lent at simple interest amounts to $₹ 1,200$ in 2 years and $₹ 1,600$ in 4 years. The rate per cent per annum is:
Ans
$\times 1.20 \%$
8. $30 \%$
9. $25 \%$

X $4.16 \%$
Q. 6 If the nine-digit number $3422213 A B$ is divisible by 99 , then what is the value of $2 A+B$ ?

Ans

1. 11
2. 12
3. 10
4. 13
Q. 7 The pie chart given below shows the number of boys in 8 schools. The total number of boys in all these 8 school is 5000 . Number of boys in a particular school is shown as a percent of total number of boys in all these 8 schools.


What is the ratio of total number of boys in $B, D$ and $E$ to the total number of boys in $A$, $C$ and $F$ ?
Ans
X 1.37:57
2. $42: 41$
$\times 3.57: 38$
$\times 4.41: 42$
Q. 8


In the given figure, if $\mathrm{KI}=\mathrm{IT}$ and $\mathrm{EK}=\mathrm{ET}$, then $\angle \mathrm{TEI}=$ $\qquad$ .

Ans
$\times 1.75^{\circ}$
$\times 2.125^{\circ}$
3. $105^{\circ}$

- $4.150^{\circ}$
Q. 9 The pie chart given below shows the number of car sold by 8 different companies. The total number of car sold by all these 8 companies are 5,000 . Number of cars sold by a particular company is shown as a percent of total number of cars sold by all these 8 companies.


What is the ratio of total central angle formed by sector $R$ and $S$ to the total central angle formed by sector U and V ?
Ans
$\times 1.1: 4$
2. 2:1
$\times 3.1: 2$
4. $3: 1$
Q. 10 In a $\triangle A B C \angle B+\angle C=110^{\circ}$, then find the measure of $\angle A$.

Ans
$\times 1.90^{\circ}$
2. $70^{\circ}$
3. $80^{\circ}$
4. $60^{\circ}$
Q. 11

In the given figure, $\angle \mathrm{ABC}=81^{\circ}$ and $\angle \mathrm{ACB}=9^{\circ}$. What is the value of $\angle \mathrm{BDC}$ ?


Ans
$\times 1.80^{\circ}$
2. $90^{\circ}$
$\times 3.70^{\circ}$
$\times 4.60^{\circ}$
Q. 12 If $x=2-2^{\frac{1}{3}}+2^{\frac{2}{3}}$, then find the value of $x^{3}-6 x^{2}+18 x$.

Ans
$\times 1.40$
$\times 2.33$
$\times 3.45$

- 4.22
Q. 13 If $A$ is an acute angle, the simplified form of
$\frac{\cos (\pi-A) \cdot \cot \left(\frac{\pi}{2}+\mathrm{A}\right) \cos (-\mathrm{A})}{\tan (\pi+\mathrm{A}) \tan \left(\frac{3 \pi}{2}+\mathrm{A}\right) \sin (2 \pi-\mathrm{A})}$ is:
Ans
$\times 1 \cdot \operatorname{Cos}^{2} A$
$\times 2 . \sin A$
X 3. $\operatorname{Sin}^{2} A$

4. $\operatorname{Cos} A$
Q. 14 If $a+b+c=5, a^{3}+b^{3}+c^{3}=85$ and $a b c=25$, then find the value of $a^{2}+b^{2}+c^{2}-a b-$ bc-ca.
Ans

- 1.2
$\times 2.4$
$\times 3.6$
$\times 4.8$
Q. 15 Find the area of the shaded portion of an equilateral triangle with sides 6 units shown in the following figure.A circle of radius 1 unit is centred at midpoint of a side of the triangle.


Ans

1. $\frac{1}{2}\left(9 \sqrt{3}-\frac{11}{7}\right)$ unit $^{2}$
2. $\frac{1}{4}\left(9 \sqrt{3}-\frac{11}{7}\right)$ unit $^{2}$
3. $\frac{1}{2}\left(6 \sqrt{3}-\frac{11}{7}\right)$ unit $^{2}$
4. $\frac{1}{2}\left(9 \sqrt{3}-\frac{22}{7}\right)$ unit $^{2}$
Q. 16 The table given below shows the sales turnover of 5 different companies.

| Company | Sales turnover |
| :---: | :---: |
| E | 270 |
| F | 230 |
| G | 350 |
| H | 400 |
| I | 300 |

What is the difference between the sales turnover of company H and F ?
Ans
$\times 1.190$
$\times 2.210$
2. 170
4. 230
Q. 17 If $a=-12, b=-6$ and $c=18$, then what is the value of $(2 a b c) / 9$

Ans $\times 1.554$
2. 288
3. -288
$\times 4.144$
Q. 18 By selling an article for Rs. 33,000 a man gains $10 \%$. To get a profit of $20 \%$, he has to sell it for:
Ans
X 1.Rs.30,000
2. Rs. 35,000
3. Rs.36,000
4. Rs. 36,600
Q. 19 In nine innings of cricket, the average of a batsman is 58 runs. How many runs does he need to make in the tenth innings to get the average score 61?
Ans

1. 88
$\times 2.69$
$\times 3.79$
2. 100
Q. 20 Find the mean proportional between 25 and 225.

Ans
$\times 1.65$
$\times 2.25$

- 3.75
$\times 4.85$
Q. 21 Pawan can do a piece of work in 32 days. He worked for 8 days and left the work. Thereafter Sandeep finished the remaining work in 27 days. In how many days can Pawan and Sandeep together do the whole work?

Ans

1. $16 \frac{16}{17}$ days
2. $16 \frac{13}{17}$ days
< 3. $16 \frac{15}{17}$ days
X4. $16 \frac{14}{17}$ days
Q. 22 The ratio of two numbers is $6: 7$ and their HCF is 3 . Their LCM is $\qquad$ .
Ans
$\times 1.124$
(2. 128

- 3.122

4. 126
Q. $23 \triangle P Q R$ is right-angled at $Q$. The length of $P Q$ is 5 cm and $\angle P R Q=30^{\circ}$. Determine the length of side QR.
Ans
5. $5 \sqrt{3} \mathrm{~cm}$
6. $3 \sqrt{3} \mathrm{~cm}$
7. $\frac{1}{\sqrt{3}} \mathrm{~cm}$
8. $\frac{5}{\sqrt{3}} \mathrm{~cm}$
Q. 24 A shopkeeper allows a discount of $12 \%$ to his customers and still gains $18 \%$. Find the marked price of an article which costs Rs. 528 to the shopkeeper.(Answer to the nearest rupees)
Ans
X 1. Rs. 728
9. Rs. 708

X 3. Rs. 695
X4.Rs. 798
Q. 25
' $O$ ' is a point in the interior of an equilateral triangle. The perpendicular distance from ' $O$ ' to the
sides are $\sqrt{3} \mathrm{~cm}, 2 \sqrt{3} \mathrm{~cm}, 5 \sqrt{3} \mathrm{~cm}$. The perimeter of the triangle is:
Ans

1. 48 cm
2. 32 cm
3.24 cm
3. 64 cm

## Section : English Comprehension

Q. 1 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
His heart pounded as he checked his rearview mirror and saw only the dark $\qquad$ of highway.
Ans

1. vitality
2. stretch
3. trench
4. emancipation
Q. 2 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. Within an hour, he was in jail.
Q. He made no attempts to hide his identity and even looked directly into the security camera and smiled.
R. On Jan 6, 1995, McArthur Wheeler boldly robbed two banks in broad daylight with no disguise.
S. By 11:00 at night, his picture was all over the news, leading an informant to identify Wheeler to the police.
Ans
X 1.RPSQ
X 2. SPQR
5. RQSP

X4.PRQS
Q. 3 Select the most appropriate synonym of the underlined word in the given sentence.

Isn't knowledge supposed to make life sweeter and happier?
Ans
X 1. Curriculum
2. Profession
3. Wisdom
4. Superiority
Q. 4 Select the most appropriate option that can substitute the underlined segment in the given sentence.
The man which was present at the meeting spoke against the chairperson.
Ans
X 1. The man which were present
$X$ 2. The men which was present
X 3. The man whom was present
4. The man who was present
Q. 5 Select the most appropriate option to complete the given sentence.

They were not able to get the item from the store because it was $\qquad$ -
Ans
X 1 . in fashion
$X 2$ in vain
3. out of stock
<4. on leave
Q. 6 Select the most appropriate meaning of the underlined idiom in the given sentence. I must tell you that it all went pear-shaped after you left the meeting in the middle.
Ans

1. Went terribly wrong
$\times 2$. Became very entertaining
X 3. Became tragic
2. Turned out fine
Q. 7 Select the most appropriate ANTONYM of the word 'dwindle' in the sentence given below.

Rahul advised Neerja to appreciate or motivate her younger brother and not to dwindle or neglect his ideas all the time.

Ans
X 1. deprecate
2. complement

X 3. motivate
X 4. neglect
Q. 8 Select the most appropriate option to substitute the underlined segment in the given sentence.

The bus is now full of passengers, it will leave soon.
Ans
$\times 1$. leaves
$\times 2$. is leaving
3. is going to leave

X 4. has to leave
Q. 9 Select the option that expresses the given sentence in active voice.

Where was this pen found by him?
Ans
$\times 1$. Where do he find this pen?
$\times 2$. Where does he find this pen?
X 3. Where did he found this pen?
4. Where did he find this pen?
Q. 10 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Kranthi loves to swim at the local swimming pool in order that relieve his work stress.
Ans

1. in order which
2. No substitution
3. in order as to relieve
4. in order to relieve
Q. 11 Select the most appropriate ANTONYM of the given word.

Inherent
Ans
X 1. Natural
2. extraneous

X 3. Induce
X4. Restricted
Q. 12 Select the idiom from the given options that gives the most appropriate meaning of the highlighted text in the following sentence.

A village fair is a place that contains many interesting objects. People of all age groups eagerly wait for this.
Ans
X 1. Road to Damascus
X 2. Ivory tower
3. Aladdin's cave
$\times 4$. Jewel in the crown
Q. 13 Select the option that expresses the given sentence in passive voice.

I named the child Ritesh.
Ans

1. The child was named Ritesh.

X 2. The child Ritesh is named.
X 3. The child is named Ritesh.
4. The child Ritesh was named.
Q. 14 Select the sentences that contains no spelling errors in the given context.

Ans
X 1. Furrow from the protestors was heard outside the president's house.
X 2. Furoroe from the protestors was heard outside the president's house.
3. Furore from the protestors was heard outside the president's house.

X 4. Furorow from the protestors was heard outside the president's house.
Q. 15 In the given sentence, one word may have been incorrectly spelt. Select the correctly spelt word from the given alternatives. If there is no error, select 'No error' as your answer.

Decades of enimity between Lomovs and Chubukovs came to an end with the marriage between the two families.
Ans
$\times 1$. enemity
2. enmity

X 3. anaemity
4. No error
Q. 16 Select the correct direct form of the given sentence.

She tells me that I am her lucky charm.
Ans
X 1. She says to me, "You was my lucky charm."
X 2. She said to me, "You are my lucky charm."
X 3. She says to me, "I am your lucky charm."
4. She says to me, "You are my lucky charm."
Q. 17 Select the most appropriate synonym of the given word.

Chide
Ans
X 1. Prevent
X 2. Rescue
2. Scold
<4. Follow
Q. 18 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The boy, as well as / his friends, were / absent from the class / when the teacher came.
Ans

1. absent from the class
2. when the teacher came
3. his friends, were
4. The boy, as well as
Q. 19 Rearrange the parts of the sentence in correct order.

Genome-wide
P. with metabolites that influence
Q. traits like flavour, disease resistance and texture
R. analysis of each apple enabled
S. identification of genetic markers associated

Ans $\times 1$.PQRS
X 2. QRPS
3. RSPQ

- 4. QRSP
Q. 20 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

He describes the place vivid / that inspired in us / a wish to visit / the same.
Ans

1. He describes the place vivid
2. the same.
3. a wish to visit
4. that inspired in us

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Exercise is the (1) $\qquad$ of muscles and limbs which is done to (2) $\qquad$ a specific
outcome. The chief aim of doing exercise is usually (3) $\qquad$ fitness. At the end of our
(4) $\qquad$ day, we prefer to (5) $\qquad$ in leisure activities rather than a workout.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank no. 1.

Ans
X 1. motion
X 2. current
3. movement

X 4. fluctuation

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Exercise is the (1) $\qquad$ of muscles and limbs which is done to (2) $\qquad$ a specific
outcome. The chief aim of doing exercise is usually (3) $\qquad$ fitness. At the end of our
(4) $\qquad$ day, we prefer to (5) $\qquad$ in leisure activities rather than a workout.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank no. 2.

Ans
X 1. yield
2. attain
3. establish

X 4. procure

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Exercise is the (1) $\qquad$ of muscles and limbs which is done to (2) $\qquad$ a specific
outcome. The chief aim of doing exercise is usually (3) $\qquad$ fitness. At the end of our
(4) $\qquad$ day, we prefer to (5) $\qquad$ in leisure activities rather than a workout.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank no. 3.

Ans
$X$ 1. magnifying
X 2. amplifying
X 3. intensifying
4. enhancing

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Exercise is the (1) $\qquad$ of muscles and limbs which is done to (2) $\qquad$ a specific outcome. The chief aim of doing exercise is usually (3) $\qquad$ fitness. At the end of our (4) $\qquad$ day, we prefer to (5) $\qquad$ in leisure activities rather than a workout.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank no. 4.

Ans
X 1 . lively
2. hectic
3. furious
4. feverish

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Exercise is the (1)
of muscles and limbs which is done to (2) $\qquad$ a specific outcome. The chief aim of doing exercise is usually (3) fitness. At the end of our (4) $\qquad$ day, we prefer to (5) $\qquad$ in leisure activities rather than a workout.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank no. 5.

Ans

1. indulge

X 2. Iuxuriate
X 3. abandon
4. coddle

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iON Digital Zone iDZ 2 Sector 62 |
| Exam Date | 13/12/2022 |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
$(16,7,81)$
$(24,16,64)$
Ans

1. $(13,7,36)$

X 2. $(48,39,18)$
X 3. $(37,25,100)$
X4. $(21,19,8)$
Q. 2 In the following question, select the missing number from the given series.

67, 46, 24, 1, -23, ?
Ans

1. -48

X 2. -38
X 3. -46
$\times 4 .-50$
Q. 3 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).
(×)


Ans

$\checkmark 3$.

$\times 4$.

Q. 4 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
68: 19 :: 76 : 21 :: 164 : ?
Ans
$\times 1.45$
$\times 2.39$

- 3.43
$\times 4.41$
Q. 5 In a certain code language, 'COMMUNITY' is written as 'YITUNMCOM' and 'AUTHORITY' is written as 'YITORHAUT'. How will 'ISOLATION' be written in that language?
Ans
X 1. NIAOTLISO
X 2. NIOATILSO
X 3. NIOATLIOS

4. NIOATLISO
Q. 6 In a certain code language 'BOTTLE' is written as ' 148 ', 'SIPPER' is written as ' 166 '. How will 'BUMPER' be written in that language?
Ans
< 1.160
5. 170
6. 150
7. 180
Q. 7 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
ACCUSED : UCCASDE :: FACTORY : TCAFOYR :: DYNAMIC : ?
Ans
X 1. YNMICAD
X 2. DNYMACI
8. ANYDMCI
9. DANYMIC
Q. 8 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 3$.

Q. 9 A \# $B$ means ' $A$ is the sister of $B$ '.
$A @ B$ means ' $A$ is the son of $B$ '.
$A$ \& $B$ means ' $A$ is the father of $B$ '.
$A \% B$ means ' $A$ is the mother of $B$ '.
If $\mathbf{W} \& \mathrm{Q}$ \# $\mathrm{T} \& \mathrm{Y}$ @ $\mathrm{M} \% \mathrm{~K}$, then how is Q related to K ?
Ans

1. Mother's sister
2. Sister
3. Father's sister
4. Father's mother
Q. 10 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).
Statements:
Some pencils are rods.
No rod is a door.
All balls are rods.
Conclusions:
I. Some pencils being balls is a possibility.
II. No ball is a door.
III. All rods are balls.
IV. No pencil is a door.

Ans
X 1. Only Conclusions I, II and IV follow
2. Only Conclusions I and II follow

X 3. Only Conclusion I follows
4. Only Conclusions II and III follow
Q. 11 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related
to each other based on the number of letters/number of consonants/vowels in the
word)
Rice: Carbohydrates
Ans
X 1. Eggplant: Vegetable
X 2. Flesh: Chicken
3. Cottage cheese : Protein

X 4. Orange : Fruit
Q. 12 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NTR, TCE, ZLR, FUE, ?
Ans
X 1. LMR
2. LDR

X 3. RNQ
X4.RMO
Q. 13 Which of the following letter-clusters will replace the question mark (?) in the given series?
DBK, GDL, JFM, MHN, ?
Ans
X 1. QKN
X 2. PKO
3. PJO

X4. QJO
Q. 14 Select the figure that will come next in the following figure series.


Ans

$\times 2$

$\times 3$

$\checkmark 4$.

Q. 15 If $A \times B$ means that $A$ is the brother of $B, A-B$ means that $A$ is the sister of $B, A+B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the father of R ?
Ans

1. $P+Q \times R$

X 2. $P \times Q+R$
3. $P+Q \div R$
4. $P-Q \times R$
Q. 16 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. No $A$ is $B$.
II. No $C$ is $B$.

Conclusion:
I. Some $C$ are not $A$.
II. Some A are B.

Ans

1. Neither conclusion follows
2. Only conclusion II follows
3. Only conclusion I follows
4. Both conclusions I and II follows
Q. 17 By Interchanging the given two numbers which of the following equation will be correct?
4 and 6
Ans
5. $4 \div 2+3-6 \times 5=-14$
6. $9 \div 3+6 \times 5-4=18$
$3.4 \times 3+6-2 \div 1=21$
7. $4-6 \div 2+3 \times 5=20$
Q. 18 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. $(14-28-42)$
2. $(16-32-64)$
3. $(18-36-72)$
4. $(12-24-48)$
Q. 19 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
16 : 96 :: ? : 161 :: 18 : 120
Ans
5. 22
6. 21
7. 20
8. 24
Q. 20 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
50 * 10 * 20 * 5 * 105
Ans
9. $\div, \times,+,=$
10. $\times,-,+,=$
11. $\div, \times,-,=$
12. $\times, \div+,=$
Q. 21 After arranging the given words according to dictionary order, which word will come at 'Third' position?
13. Overwork
14. Overwrought
15. Overwhelming
16. Overweight
17. Overweening

Ans

1. Overwhelming
2. Overwrought
3. Overweight
4. Overweening
Q. 22 Which of the following interchange of numbers and mathematical signs would make the given equation correct?
$28+7 \times 10 \div 5-20=5$
Ans
$\times 1.10$ and $20, \times$ and +
X2.5 and 20 , - and $\div$
$\times 3.7$ and $28, \times$ and $\div$

- 4.5 and $10,+$ and $\div$
Q. 23 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

Ans
X1. PONM
2. EDCB
3. SRQP
4. BYXW
Q. 24 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

Q. 25 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$\times 1$.

$\times 2$.

$\checkmark 3$.

$\times 4$.


Section: General Awareness
Q. 1 In which year was Asha Bhosle's name entered into the Guinness Book of World Records for most studio recordings?
Ans
X 1.2017
X 2.2020
X 3.2014
2. 2011
Q. 2 Which article of Indian constitution is related with the Special provisions with respect to the State of Sikkim?

Ans
X 1. Article 371C
X 2. Article 371
3. Article 371F

X4. Article 371A
Q. 3 Which of the following statement is correct with respect to the Sangam literature? I. These texts were supposed to be composed and compiled in assemblies of poets.
II. The Sangam literature compiled in assemblies of poets were held in the city of Madurai.

Ans
X 1. Neither I nor II
2. Both I and II

X 3. Only 1
4. Only II
Q. 4 Which of the following have mountain range young fold mountains?

Ans $\times 1$. Appalachians mountain range
2. Alps mountain range
3. Aravali mountain range
4. Ural mountain range
Q. 5 Identify a fomite from the following.

Ans
X 1. Drinking water
2. Blood
3. Saliva
4. Glass
Q. 6 Kullu Dussehra is a colourful festival majorly celebrated in which state/union territory?

Ans
X 1. Delhi
2. Telangana
3. Uttar Pradesh
4. Himachal Pradesh
Q. 7 Peat coal has $\qquad$ carbon and $\qquad$ moisture content?

Ans
X 1. High, Low
2. Low, high

X 3. High, High
X 4. Low, Low
Q. 8 After the $\qquad$ , Mahatma Gandhi called off the Non-Cooperation Movement.
Ans $\times 1$. Jallianwala Bagh massacre
2. Chauri Chaura incidence

X 3. Bengal partition
X 4. Round Table conferences
Q. 9 The Kashi Yatra Scheme was introduced by the government of $\qquad$ .

Ans

1. Karnataka
2. Uttar Pradesh
3. Punjab
4. Kerala
Q. 10 The national highway network connecting Delhi, Mumbai, Chennai and Kolkata is called $\qquad$ —.
Ans
X 1. Diamond quadrilateral
X 2. Diamond polygon
X 3. Golden polygon
5. Golden Quadrilateral

## Q. 11 Synecology can be defined as which of the following?

Ans $\times 1$. A branch of science that deals with the interrelationship of individual species with its environment.
X 2. A branch of science that deals with the interrelationship of two species.
X 3. A branch of science that deals with the interrelationship of whole biome.
4. A branch of ecology that deals with the structure, development and distribution of ecological communities.
Q. 12 'Thaipoosam' festival is celebrated in which state of India?

Ans
X 1. Bihar
X 2. Andhra Pradesh
3. Tamil Nadu
$\times 4$. Goa
Q. 13 The Kuchipudi dance form originated in which of the following states of India?

Ans $\times 1$. Uttar Pradesh
X 2. Kerala
X 3.Assam
4. Andhra Pradesh
Q. 14 The SI unit of speed is $\qquad$ .

Ans

1. m/s
2. km/s
3. km/hr
4. $\mathrm{m} / \mathrm{hr}$
Q. 15 On the occasion of teacher's day 2022, the Indian Science Technology and

Engineering facilities Map (I-STEM) launched an initiative to strengthen the efforts of scientifically inclined women. What is the name of this initiative?

Ans
(1. KUSUM
2. KALYAN
3. WEST
4. NAMASTE
Q. 16 The first English Factory in Bengal set up on the banks of river "Hugli" in

Ans
$\times 1.1671$
2. 1641
3. 1661
4. 1651
Q. 17 In which of the following cities did Prime Minister Narendra Modi participate in 2019 as part of the celebration of International Day of Yoga on June 21?
Ans

1. Ranchi
2. Lucknow
3. New Delhi
4. Chandigarh
Q. 18 What should be the standard length of a tennis court according the laws of the International Tennis Federation (ITF), 2021?

Ans

1. 23.77 m
2. 22.45 m
3. 26.42 m
4. 25.34 m
Q. 19 Article 20 of the Constitution of India deals with $\qquad$ -.

Ans
X 1. protection of life and personal liberty
2. protection in respect of conviction for offences
3. abolition of untouchability
4. right to education
Q. 20 Who is the father of the modern ecology?

Ans
X 1. Robert Brown
X 2. Charles Darwin
3. E P Odum

X 4. Robert Hook
Q. 21 Which of the following Indian states receive rainfall during October and November due to the North-East monsoon?
Ans
X 1. Uttar Pradesh
X 2. Maharashtra
X 3. Madhya Pradesh
4. Tamil Nadu
Q. 22 Who is the Ex-officio Chairman of NITI Aayog?

Ans
X 1. President
2. Prime Minister

X 3. Home Minister
X 4. Finance Minister

## Q. 23 Which of the following statements is true?

A)Wage bill of the government is a capital expenditure.
B) Disinvestment by the government in a company is a capital receipt.

Ans
X 1. Only (A)
X 2. Neither $(A)$ nor $(B)$
X 3. Both (A) and (B)
4. Only (B)
Q. 24 Who has been appointed as the 37th CRPF Director General?

Ans
X 1. Rajendra Kumar
2. Sujoy Lal Thaosen
3. Anil Chauhan
4. Vijay Jasuja
Q. 25 Who among the following gave up his traditional professions and took to arms, successfully established kingdom in Karnataka?
Ans

1. Vasudeva Kanva
2. Gurjara-Pratihara Harichandra

X 3. Pushyamitra Shunga
4. Kadamba Mayurasharman

Section: Quantitative Aptitude
Q. $1 \triangle \mathrm{ABC} \sim \triangle \mathrm{DEF}$ and the perimeters of these triangles are 32 cm and 12 cm , respectively. If $\mathrm{DE}=6 \mathrm{~cm}$, then what will be the length of AB ?

Ans 1. 16 cm
2. 14 cm
3. 12 cm
4.18 cm
Q. 2 The bar graph given below shows the percentage distribution of the total production of six different types of cars by a car manufacturing company over 2 years.

Percentage of Six different types of Cars manufactured by a Company over Two Years


If $75 \%$ of the T type cars produced in each year were sold by the company, how many T type cars remain unsold?

Ans
X 1.23500
X 2. 22000
*. 24125
4. 25000
Q. 3 The table given below shows the number of working days of a company in 5 years.

| Years | Working days |
| :---: | :---: |
| P | 110 |
| Q | 310 |
| R | 160 |
| S | 60 |
| T | 210 |

What are ratio of number of working days in year $R$ to the number of working days in year T ?
Ans

1. $16: 21$
2. 15:22
3.21:17
3. $21: 16$
Q. 4 The monthly income of Mr. Roy is Rs. $\mathbf{1 8 , 0 0 0}$. He took a loan of Rs. $\mathbf{3 0 , 0 0 0}$ on simple interest for 3 years at the rate of $5 \%$ per annum. The amount that he will be paying as simple interest in 3 years is what percent of his monthly salary?
Ans
X $1.30 \%$
X $2.35 \%$
X $3.20 \%$
4. $25 \%$
Q. 5 When $m^{12}-1$ is divided by $m+1$, the remainder is:

Ans
$\times 1.1$
$\times 2.2$

- 3.0
<4. -1
Q. 6 The table given below shows the number of salesman in five companies.

| Companies | Salesman |
| :---: | :---: |
| J | 45 |
| K | 20 |
| L | 40 |
| M | 15 |
| N | 25 |

Number of salesman in $J$ is what percent of the number of salesman in $K$ ?
Ans
X 1.250 percent
X 2.150 percent
( 3.125 percent
4. 225 percent
Q. 7 Ramesh purchases a table and a chair for Rs.3,900. He sells the table at a profit of $8 \%$ and the chair at a profit of $16 \%$. He earns a profit of Rs.540. What is the difference between the original price of the table and the chair?
Ans
X 1. Rs.2,000
2. Rs.1,800

X 3.Rs.1,900
4. Rs.1,700
Q. 8 Which of the following statement is correct?
I. If $\mathrm{x}=12, \mathrm{y}=-2$ and $\mathrm{z}=-10$, then $\mathrm{x}^{3}+\mathrm{y}^{3}+\mathrm{z}^{3}=360$.
II. If $x+y=48$ and $4 x y=128$, then $4 x^{2}+4 y^{2}=4480$.

Ans

1. Neither I nor II
2. Only I
3. Both I and II
4. Only II
Q. 9 The number of units manufactured by a company A was 12500 units in 2019 and 10625 units in 2020. While in company B, the production fell from 34000 units in 2019 to 30600 units in 2020. If $X$ and $Y$ are the percentage decrease in the number of units manufactured by company $A$ and $B$ respectively from 2019 to 2020, then what will be the ratio of $X$ and $Y$ ?

Ans
X1.5:3
X2.3:4
3. $3: 2$
$\times 4.8: 5$
Q. 10 study the given graph and answer the following question.


The number of lecturers recruited in state B in the year 2019 was what percentage of the number of lecturers recruited in state C in the year 2021? (Correct to 2 decimal places.)
Ans
X1.56.25\%
X $2.50 .25 \%$
X 3.48.62\%
4. $57.89 \%$
Q. 11 The circumference of the two circles is 110 cm and 330 cm respectively. What is the difference between their radii?

Ans
$\times 1.70 \mathrm{~cm}$
2. 15 cm
3. 46 cm
4. 35 cm
Q. 12 If $\mathrm{K}+\frac{1}{\mathrm{~K}}+2=0$ and $\mathrm{K}<0$, then what is the value of $\mathrm{K}^{11}+\frac{1}{\mathrm{~K}^{4}}$ ?

Ans 1. 0
2. -2
3. -1
4. -17
Q. 13 If $\sec ^{2} \mathrm{~A}+\tan ^{2} \mathrm{~A}=3$, then what is the value of $\cot \mathrm{A}$ ?

Ans
(1. $\frac{1}{\sqrt{3}}$
2. 0
3. 1
4. $\sqrt{3}$
Q. 14 An article costs Rs. 4,000 to a shopkeeper, who marks its price at Rs.8,400. The shopkeeper sells it to a customer at a discount of $25 \%$. The customer gets a further discount of $15 \%$ on the discounted price if the customer redeems a coupon issued by the store previously. What is the profit percentage (to the nearest integer) earned by the shopkeeper in this transaction?

Ans

1. $34 \%$
2.51\%
2. $42 \%$
3. $36 \%$
Q. 15 If the numerical value of twice the curved surface area of a right circular cylinder is equal to the numerical value of its volume, then what is the numerical value of the radius of the base of the cylinder?
Ans
$\times 1.2$
$\times 2.3$
$\times 3.5$
4. 4
Q. 16 If $x+\frac{1}{x}=6$, then find the value of $\frac{3 x}{2 x^{2}-5 x+2}$.

Ans
$\times 1.1$
3
2. $\overline{7}$

2
3. $\overline{3}$
$\times 4.0$
Q. 17 The hour hand moves through 4 hours and has a length of 6 cm . Find the area (in $\mathrm{cm}^{2}$,rounded off to two decimal places) of the sector covered by the hour hand.
Ans
X1. 32.69
$\times 2.30 .67$
3. 37.71
$\times 4.35 .75$
Q. 18 If $\theta$ is an acute angle and $\tan \theta+\cot \theta=2$, then the value of $\tan ^{200} \theta+\cot ^{200} \theta$ is:

Ans

1. 1
2. 2

X 3.-1
$\times 4.0$
Q. 19 In the figure BCDE is a square and ABC is equilateral triangle then $\angle \mathrm{ADC}$ is:


Ans
$\times 1.45^{\circ}$
$\times 2.30^{\circ}$
$\times 3.60^{\circ}$

* $4.15^{\circ}$
Q. 20 Salaries of Rida and Riya are in the ratio of 3:5, respectively. If the salary of each one is increased by Rs.5,000, then the new ratio becomes $5: 7$. What is Riya's present salary?

Ans

1. Rs.12,500

X 2. Rs.7,500
X 3.Rs.2,500
X 4. Rs.10,000
Q. 21 Ram, Shyam, Rohan, Reeta and Mukesh are five members of a family who are weighed consecutively and their average weight is calculated after each member is weighed. If the average weight increases by $\mathbf{2} \mathbf{k g}$ each time, how much heavier is Mukesh than Ram?

Ans
X 1.14 kg
X 2.18 kg

- 3.16 kg

4. 12 kg
Q. 22 A is $20 \%$ more efficient than $B$. How much time will they working together take to complete a job which A alone could have done in 29 days?

Ans

1. $\frac{145}{11}$
2. $\frac{116}{11}$
3. $\frac{203}{11}$

- $4 . \frac{174}{11}$
Q. 23 Determine the LCM of two numbers if their HCF is 9 and their ratio is $14: 19$.

Ans

1. 2394
2. 3990
3. 1596
$\times 4.3192$
Q. $24 \ln \triangle P Q R, \angle Q=90^{\circ}, P Q=8 \mathrm{~cm}$ and $\angle P R Q=45^{\circ}$. Find the length of $Q R$.

Ans
$X 1.6 \mathrm{~cm}$
<2.3cm
$\times 3.5 \mathrm{~cm}$
4.8 cm
Q. 25 In a 1000 m race, Arjun, Balaji and Charan are running. Arjun beats Balaji by 100 m , and Balaji beats Charan by 100 m . In the next 1000 m race (the speeds are the same as in the previous), Balaji gives Charan a head start of 100 m , and Arjun gives Balaji a head start of 100 m . Find the distance by which the winner is ahead of the person just behind him.

Ans
X1. 100 m
2. 40 m
3.30 m
4. 20 m
Q. 1 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

One of the students is always / late to the class; he has been warn / by the teacher many times; / but still, he keeps on being late.

Ans
$X 1$. One of the students is always
X 2. but still, he keeps on being late
$X$ 3. by the teacher many times;
4. late to the class; he has been warn
Q. 2 Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully.

The percentage of employees who called in sick and the number of employees who left their jobs within 2 years (were reflective of the level of job satisfaction).
Ans

1. are reflective of the level of job satisfaction
2. is reflective of the level of job satisfaction
3. has reflected the level of job satisfaction
4. were reflective on the level of job satisfaction
Q. 3 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. Omnivores get energy and nutrients from plant and animal materials by digesting carbs, protein, fat and fibre and metabolising the nutrients and energy of the sources ingested.
B. The many diverse animals categorised as omnivores may be divided into subcategories based on their dietary habits.
C. An omnivore is an animal that can feed and thrive on both, plant and animal substances.
D. They also have the capacity to integrate food sources like algae, fungus and bacteria into their diet.
Ans
< 1. CABD
5. ACDB
6. CADB
7. DCBA
Q. 4 Select the most appropriate synonym of the underlined word in the following sentence.
Roads in villages during rainy seasons become muddy.
Ans
X 1. fuzzy
8. filthy
$X$ 3. blurred
9. unsoiled
Q. 5 Select the most appropriate synonym of the underlined word.

The poet managed to paint a vivid picture of the landscape by the river through words.
Ans
X 1. Metaphoric
2. Evocative

X 3. Contemporary
X 4. Blurred
Q. 6 Select the option that expresses the given sentence in active voice.

I was fascinated by the novel.
Ans $\times 1$. The novel was fascinated to me.
2. The novel fascinated me.

X 3. The novel fascinate me.
X 4. The novel fascinates me.
Q. 7 Select the INCORRECTLY spelt word in the following sentence. There lies no guarantee that the hierchical structural framework between the elite and downtrodden sections of the society is right.
Ans

1. hierchical
2. guarantee
3. structural
4. downtrodden

## Q. 8 Select the sentences that contains no spelling errors.

Ans $\quad \times 1$. Diabeties is a chronic disease.
2. Diabetes is a chronic disease.
3. Daibetes is a chronic disease.
4. Diabites is a chronic disease.
Q. 9 The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The man who / was committed / the theft last night / was caught this evening.
Ans
X 1. was caught this evening.
2. was committed
(3. The man who
4. the theft last night
Q. 10 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Health club membership has grown by leaps and bounds after the pandemic.
Ans
X 1. slowly and gradually
X 2. full of speed and excitement
X 3. hurriedly

- 4. very quickly
Q. 11 Select the most appropriate meaning of the given idiom. Steer clear of
Ans $\times 1$. Show someone how to do a job or activity
X 2. Be very easy

3. Avoid someone or something because it is dangerous for you

4 4. Be mentally and physically exhausted
Q. 12 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

The students decided to surprise their teacher on her birthday.
Ans $\times 1$. their teacher at her birthday
2. there teacher on her birthday
3. her teacher on her birthday
4. No substitution
Q. 13 Select the option that expresses the given sentence in active voice.

The driver was taken to the nearest dispensary by the beggars.
Ans
$X$ 1. The beggars take the driver to the nearest dispensary.
2. The beggars took the driver to dispensary.
3. The beggars took the driver to the nearest dispensary.
4. To the nearest dispensary, the beggars took the driver.
Q. 14 Select the most appropriate option that can substitute the underlined segment in the given sentence.
He was sitting besides his best friend during the event.
Ans
X 1. was sitting about his
2. was sitting beside his
3. were sitting besides his
4. was sitting besides her
Q. 15 Select the most appropriate synonym of the underlined word in the given sentence.

The efforts of the doctors came to a futile end with the death of the patient.
Ans

1. Fruitless
2. Enriching
3. Startling
4. Terrifying
Q. 16 Complete the following collocation.

When I got the job, I knew what $\qquad$ money really is.
Ans
$\times$

1. effort-earned
2. soft-earned
3. hard-earned
4. honest-earned
Q. 17 Rearrange the parts of the sentence in correct order.

Russell Wilson, an NFL
P. about Naomi Osaka saying that her
Q. has been spectacular to watch
R. humility and dedication to others
S. player for the Seattle Seahawks, wrote

Ans

1. SPRQ
2. PRQS
3. RPQS
4. QPRS

## Q. 18 Select the most appropriate collocating word to fill in the blank.

This statement of the political leader has created $\qquad$ confusion.

Ans

1. utter
2. heavy
3. weighty
4. vast
Q. 19 Select the most appropriate synonym of the underlined word.

Marcella seemed morose and downcast when she refused to have dinner.
Ans
$X$ 1. Jocund
X 2. Excited
3. Gloomy
4. Liberal
Q. 20 Select the correct direct form of the given sentence. Shravan said that the prisoner had slept throughout the journey.
Ans
X 1. Shravan said, "The prisoner sleeps throughout the journey."
2. Shravan said, "The prisoner had been sleeping throughout the journey."
3. Shravan says, "The prisoner has slept throughout the journey."
4. Shravan said, "The prisoner had slept throughout the journey."

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3) _ Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) $\qquad$ toons Nagraj,
Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).
SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans $\times 1$. built
2. produced

X 3. fabricated
X 4. manufactured

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3) Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta
and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) $\qquad$ toons Nagraj,
Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).
SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans $\quad \times 1$.generated
X 2. inspired
3. promoted
4. created

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3) Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) $\qquad$ toons Nagraj,
Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).
SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. employed
2. ordered
3. contracted
4. authorised

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3) Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) $\qquad$ toons Nagraj, Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
X 1. invaded
X 2. penetrated

- 3. entered

X 4. pierced

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3) Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta
and jeans. Raj comics too (4) into this sphere with their (5) $\qquad$ toons Nagraj,
Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).
SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans $\times 1$. noted
X 2. influential
3. famous
$\times 4$ good

Combined Graduate Level Examination Tier I 2022

| Roll Number | WWW.HaryanaJobs.in |
| :--- | :--- |
| Candidate Name | WWW.HaryanaJobs.in |
| Venue Name | iNN Digital Zone iDZ 1 Sector 62 |
| Exam Date | 13/12/2022 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Which two numbers from amongst the given options should be interchanged to make the given equation correct?
$168 \div 4+216 \div(78 \times 1-8)=14$
Ans
1.78 and 216
2. 14 and 8
3. 78 and 14
4. 216 and 168
Q. 2 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Bees: Swarm :: Monkeys:?
Ans

1. Troop
2. Colony
3. Shoal
4. Herd
Q. 3 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related
to each other based on the number of letters/number of consonants/vowels in the
word.)
Calf : Cattle :: Foal : ?
Ans
X 1. Elephant
5. Horse
$\times 3$. Deer
6. Kangaroo
Q. 4 Which figure should replace the question mark (?) if the series were to be continued?

| D |  | V | S |  | Z | D |  | T | A |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | S |  |  | Z |  |  |  |  |  |  |
| Z |  | T | A |  |  | D | Z |  | F |  |
|  | F |  |  | ? |  |  |  |  |  |  |

Ans
$\times 1$.

$\times 2$.


- 3. 


$\times 4$.

Q. 5 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 6 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(9, 343, 2)
$(12,729,3)$
Ans $\quad$ 1. $(98,49,92)$
X 2. $(13,4,89)$
X 3. $(12,66,20)$

- 4. $(12,125,7)$
Q. 7 In a certain code language, 'ORGANIZATION' is written as 'ORGANINOITAZ', 'MANAGEMENT' is written as 'MANAGTNEME'. How will 'RESOURCE' be written in that language?
Ans
X 1. RESOECUR
X 2. RESOCERU
X 3. RESEOCRU

4. RESOECRU
Q. 8 Which number will replace the question mark (?) in the following series? 12, 25, 51, 103, ?, 415, 831
Ans $\times 1.208$
5. 207
$\times 3.206$
$\times 4.200$
Q. 9 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some $Z$ are $X$.
II. Some $W$ are $Z$.

Conclusions:
I. Some $X$ are not $W$.
II. Some $X$ are not $Z$.

Ans $\times 1$. Only conclusion I follows
X 2. Only conclusion II follows
X 3. Both conclusions I and II follows
4. Neither conclusion follows
Q. 10 In a certain code language, 'ANNUAL' is written as 'CPRYGR' and 'AMOUNT' is written as 'COSYTZ'. How will 'AGENDA' be written in that language?
Ans
X 1. CIIRHE
2. CIIRJG
(3. CIKTJG
4. CIGPFC
Q. 11 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).
(x)


Ans
$\times 1$

$\times 2$

$\times 3$.


- 4. 


Q. 12 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans

1. FHG
(2. WZY
2. LON
3. ADC
Q. 13 If $P \times Q$ means that $P$ is the mother of $Q, P+Q$ means that $P$ is the father of $Q, P \div Q$ means that $P$ is the sister of $Q$, then which of the following expression shows that $A$ is the maternal aunt of $C$ ?

Ans
$X 1 . A \div B+C$
$X 2 . C \times B \div A$
3. $\mathrm{A} \div \mathrm{B} \times \mathrm{C}$
$X 4 . B \div C \times A$
Q. 14 Which of the following letter-clusters will replace the question mark (?) in the given series?
TYG, ?, PSM, NPP, LMS
Ans
X 1.SVK
X 2. suJ
3. RVJ

X4.RUK
Q. $15 A-B$ means ' $A$ is the mother of $B$ ' $A$ * $B$ means ' $A$ is the husband of $B$ ' $A \% B$ means ' $A$ is the brother of $B$ '
$A \$ B$ means ' $A$ is the sister of $B$ '
If $I$ * $J-K \% L \$ M$ * $N$, then how is I related to $N$ ?
Ans
X 1. Brother-in-law
2. Father-in-law
$X$ 3. Brother
4. Father
Q. 16 Select the option figure that is embedded in the given figure. (Rotation is not allowed).


Ans
1 .

$\times 2$.

$\times 3$

Q. 17 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1-Thresh
2- Threadbare
3- Thrice
4- Threw
5- Threat
Ans

1. $2,4,5,1,3$
2. $2,5,1,4,3$
3. $2,5,4,1,3$
4. $2,1,5,4,3$
Q. 18 Select the correct combination of mathematical signs to sequentially replace the $\&$ signs, and to balance the given equation.
$[\{(42 \& 26) \&(12 \& 2)\} \&(4 \& 5)] \& 5 \& 10$
Ans
$\times 1 . \times, \div, \times, \times,-,+,=$
5. $\times,-,+, \times, \div, \times,=$
3.,,$-+ \times, \times, \div, \times,=$
4.,,$-+ \times, \div, \times, \times,=$
Q. 19 Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
Some mobiles are flat.
All flats are TVs.
Some TVs are plastic.
Conclusions:
I. Some mobiles are TVs.
II. Some flats are plastic.
III. All plastic are TVs.

Ans $\times 1$. All conclusions follow.
2. Only conclusion I follows.
3. Only conclusion III follows.
4. Only conclusion II follows.
Q. 20 By Interchanging the given two numbers which of the following equation will be not correct?
7 and 4
Ans
$1.8 \div 6 \times 9+7-4=12$
$2.7 \times 8+4-6 \div 3=37$
3. $9-4 \times 3+6 \times 7 \div 1=12$
$4.4 \times 8-9 \div 3+7=57$
Q. 21 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(3,16,6)$
$(4,22,6)$
Ans
X 1. $(12,50,5)$
2. $(9,70,8)$

X 3. $(7,43,6)$
$\times 4 .(9,10,11)$
Q. 22 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
TTDS, VMLP, XFTM, ZYBJ, ?
Ans
X 1. NDMO
X 2. TTMO
X 3. BQRT
4. BRJG
Q. 23 Six letters $T, P, K, G, R$ and $U$ are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the letter on the face opposite to K .

Ans


1. U
2. P

X 3.R
$\times 4$. G
Q. 24 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(4,7,165)$
$(14,26,600)$
Ans
X 1. $(23,29,567)$
X $2 .(5,19,225)$
3. $(3,6,135)$
4. $(17,6,325)$
Q. 25 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
1.22-40

X 2. 24-47
X 3.18-35
X $4.16-31$

Section : General Awareness
Q. 1 The Nobel Prize in Chemistry 1951 was awarded jointly to Edwin Mattison McMillan and $\qquad$ for their discoveries in the chemistry of the transuranium elements
Ans

1. Jacob Berzelius
2. Leon Jouhaux
3. Glenn T Seaborg
4. Albert Schweitzer
Q. 2 The folk dance Hojagiri originated and is associated with which part of India?

Ans
X 1. South
2. North-East
3. North
4. West
Q. 3 Which of the following states has maximum literacy rate according to census 2011?

Ans

1. Mizoram

X 2. Arunachal Pradesh
X 3. Rajasthan
X4. Bihar
Q. 4 In hockey, what is the meaning if the umpire signals by pointing both arms horizontally toward the centre of the field?
Ans

1. Goal scored
2. Timing
3. Ball out of play
4. Bully
Q. 5 Who among the following revolutionaries was associated with Swadesh Bandhav Samiti?

Ans
X 1. Chandrasekhar Azad
2. Bhagat Singh
3. Rajguru
4. Ashwini Kumar Dutta
Q. 6 Based on Macaulay's Minute, the English Education Act was introduced in $\qquad$ -.

Ans
X 1.1875
2. 1835
$\times 3.1855$
X4. 1815
Q. 7 Which ministry organized 'Nari Shakti of North East' on the occasion of International Women's Day 2022?

Ans

1. Ministry of Development of North Eastern Region
2. Ministry of Tribal Affairs
3. Ministry of Women and Child Development
4. Ministry of Social Justice and Empowerment
Q. 8 Mrinalini Sarabhai was awarded which of the following awards in 1992?

Ans
X 1. Padma Shri
2. Padma Bhushan

X 3. Kalidas Samman
4. Padma Vibhushan
Q. 9 The $\qquad$ and $\qquad$ determine the corridor for the daily movement in the weighted average call money rate.
Ans
X 1. Reverse repo, discount rate
2. Marginal standing facility, Reverse repo rate
3. Liquidity adjustment facility, repo rate
4. Bank rate, repo rate
Q. 10 Which of the following countries lies in the east of India?

Ans
X 1. Sri-Lanka
X 2. Nepal
3. Bangladesh

X 4. Afghanistan
Q. 11 Which freedom is considered as the 'Hallmark of Democracy'?

Ans
X 1. Right against exploitation
2. Right to freedom of religion
3. Freedom of assembly
4. Freedom of speech and expression
Q. 12 Which state government has launched the Kaushalya Matritva Yojana in September 2022?
Ans

1. Chhattisgarh
2. Odisha
3. Himachal Pradesh
4. Kerala
Q. 13 Who among the following was popularly called the 'Australian Mother of Kathakali'?

Ans
X 1. Margot Fonteyn
X 2. Anna Pavlova
X 3. Yelena Andreyanova
4. Louise Lightfoot
Q. 14 Xuan Zang and other pilgrims spent time studying in Nalanda, the most famous Buddhist monastery, located in which of the following Indian state?
Ans
X 1. Odisha
$\times 2$. Bengal
3. Bihar

X 4. Sikkim
Q. 15 Which of the following is NOT correct about the eligibility criteria for being elected as Vice President of India?

Ans $\quad \times 1$. He/She should be a citizen of India.
2. He/She should have completed 35 years of age.
3. He/She should not hold any office of profit under the Union Government/state government or any subordinate local authority.
4. He/She should be qualified for election as a member of the Lok Sabha.

## Q. 16 Baking soda is

Ans
X 1. sodium carbonate
X 2. sodium sulphate
3. sodium hydrogencarbonate
4. sodium hydroxide
Q. 17 Which of the following is NOT 'The Great Lakes' of North America?

Ans
X1. Superior
$X 2$. Huron
X 3. Erie
4. Victoria
Q. 18 Which of the following is a plant tissue?
I. Meristematic tissue
II. Permanent tissue

Ans
X 1. Only II
2. Both I and II

X 3. Neither I nor II
4. Only I
Q. 19 In Triple Jump, white flag indicates:

Ans

1. trail is valid
2. trail is failure
3. trail with wind support
4. allow to trial
Q. 20 Which of the following substance has a pH value of about 14 ?

Ans
$\times 1$. Blood
2. Sodium hydroxide
3. Milk of magnesia
4. Lemon Juice
Q. 21 Which of the following folk dances does NOT belong to the state of Mizoram?

Ans

1. Munari
2. Chailam

X 3. Zangtalam
4. Cheraw
Q. 22 Which crop grows best on black soil?

Ans

- 1. Cotton

X 2. Coffee
X 3. Maize
X 4. Millets
Q. 23 Who has been appointed as Secretary to President Droupadi Murmu in August 2022?

Ans
X 1. Ranjit Rath
2. Rajesh Verma

X 3. Suresh N Patel
4. Santosh lyer
Q. 24 Identify the freedom fighter who, as a child, hated going to school and found it suffocating and oppressive.
Ans
X 1. Mahatma Gandhi
X 2. Jawaharlal Nehru
X 3. Jyotiba Phule
4. Rabindranath Tagore
Q. 25 Choose the correct pair from the following options.

Ans
X 1. Sixth Five-Year Plan - Rajiv Gandhi
2. Fifth Five-Year Plan - Indira Gandhi

X 3. Fourth Five-Year Plan - Jawaharlal Nehru
4. Seventh Five-Year Plan - PV Narasimha Rao

Section : Quantitative Aptitude
Q. 1

If $a=45^{\circ}$ and $b=15^{\circ}$, what is the value of $\frac{\cos (a-b)-\cos (a+b)}{\cos (a-b)+\cos (a+b)}$ ?
Ans
x 1. $2-2 \sqrt{2}$
X2. $3-\sqrt{6}$
× $3.3-\sqrt{2}$
4. $2-\sqrt{3}$
Q. 2 The table given below shows the sales turnover of 5 different companies.

| Company | Sales turnover |
| :---: | :---: |
| A | 120 |
| B | 80 |
| C | 200 |
| D | 250 |
| E | 150 |

The sales turnover of company $A$ is what percent of the sales turnover of company $C$ ?
Ans

1. 60 percent
2. 50 percent
3. 40 percent
4. 75 percent
Q. 3 A triangle and a parallelogram have the same base 28 cm and the same area. If the height of the parallelogram is 12 cm , then find the length of the altitude of the triangle.
Ans
$\times 1.28 \mathrm{~cm}$
5. 23 cm
6. 24 cm
7. 21 cm
Q. 4 Choose the option in which the numbers are in correct ascending order.

Ans

1. $\frac{4}{5}, \frac{2}{3}, \frac{1}{11}$ and $\frac{2}{9}$
2. $\frac{1}{11}, \frac{2}{9}, \frac{2}{3}$ and $\frac{4}{5}$
3. $\frac{2}{9}, \frac{1}{11}, \frac{4}{5}$ and $\frac{2}{3}$
$\times 4 . \frac{2}{3}, \frac{4}{5}, \frac{1}{11}$ and $\frac{2}{9}$
Q. 5 The length of the chord of a circle is 24 cm , and the perpendicular distance between the centre and the chord is 5 cm . The radius of the circle is:
Ans
X 1.10 cm
4. 13 cm
$\times 3.12 \mathrm{~cm}$
4.24 cm
Q. 6 A student walked 6 km from his house to reach the metro station, then boarded a metro that has an average speed of $60 \mathrm{~km} / \mathrm{h}$, and reached the destination. It took 3 hours for the entire journey. If the average speed of the entire journey is $32 \mathrm{~km} / \mathrm{h}$, then the speed of walking is $\qquad$ _.
Ans
X $1.1 .5 \mathrm{~km} / \mathrm{h}$
X $2.3 \mathrm{~km} / \mathrm{h}$
X $3.2 \mathrm{~km} / \mathrm{h}$
v $4.4 \mathrm{~km} / \mathrm{h}$
Q. 7 A, B and C can all together do a piece of work in 10 days, in which $B$ takes 3 times as long as $A$ and $C$ together to do the work. In how many days can $B$ alone do the work?
Ans
X 1.50 days
5. 40 days

X 3.10 days
4. 15 days
Q. 8 A sum of Rs. 10 is lent by a child to his friend to be returned in 11 monthly instalments of Rs. 1 each, the interest being simple. The rate of interest is:
Ans
X $1.11 \frac{9}{11} \%$
2. $21 \frac{9}{11} \%$
$\times 3.10 \frac{2}{11} \%$
X4. $9 \frac{1}{11} \%$
Q. 9 The sum of two numbers is 680 . If the bigger number is decreased by $15 \%$ and the smaller number is increased by $15 \%$, then the resultant numbers are equal. Find the smaller number.

Ans
$\times 1.307$
2. 285
3. 291
4. 304
Q. 10 If $a-b=8$ and $a b=9$, then the value of $a+b$ is $\qquad$ .

Ans $\times 1 . \pm 9$
X $2 . \pm 7$
X $3 . \pm 8$

- 4. $\pm 10$
Q. 11 Select the INCORRECT statement with respect to the properties of a circle.

Ans
Х 1. Two tangents drawn at the end of the diameter of a circle are parallel.
X 2. The radius drawn perpendicular to a chord bisects the chord.
X 3. The diameter of a circle is the longest chord of a circle.
4. The perpendicular distance from the centre of a circle increases when the length of a
chord increases.
Q. 12 Sita gets a discount of $20 \%$ on $₹ 3,000$ juicer mixer machine. Since she pays cash, she gets additional $5 \%$ discount too. How much does she pay?
Ans

1. ₹2,280

X 2. ₹2,276
X 3. ₹2,282
4. ₹2,278
Q. 13 What is the value of cosec $15^{\circ} \mathrm{sec} 15^{\circ}$ ?

Ans
$\times 1.0 .5$
2. 4

- 3.2
4.1
Q. 14 The pie chart given below shows the production of 6 different factories. The total production of all these 6 factories is 15000. The production of a particular factory is shown as a percent of total production of all these 6 factories.

F6

$\mathrm{J} 1=$ The value of average production of factory F3 and F6.
$\mathrm{J} 2=$ The difference between the production of factory F1 and F4.
What is the value of $(\mathrm{J} 2-\mathrm{J} 1)$ ?
Ans
$\times 1.385$
$\times 2.395$

- 3.375
$\times 4.305$
Q. 15 The HCF of two numbers is 17 and the other two factors of their LCM are 11 and 19.

The smaller of the two numbers is:
Ans
$\times 1.209$
2. 187
$\times 3.323$
$\times 4.306$
Q. $16 \frac{\cos A}{1-\tan A}+\frac{\sin A}{1-\cot A}=$ $\qquad$ .

Ans
$\times 1 \cdot \tan A-\cot A$
X 2. $\tan A+\cot A$
X 3. $\sin A-\cos A$
4. $\sin A+\cos A$
Q. 17 If $2 p+q=19$ and $8 p^{3}+q^{3}=361$, then find the value of $p q$.

Ans
$\times 1.56$
$\times 2.59$
$\times 3.58$
4. 57
Q. 18 Which of the following statement is correct?
I. If $x=12, y=-2$ and $z=-10$, then $x^{3}+y^{3}+z^{3}=720$
II. If $x+y=48$ and $4 x y=128$, then $s$ the value of $4 x^{2}$
$+4 y^{2}$ is 8960
Ans

1. Neither I nor II
2. Only I
3. Both I and II
4. Only II
Q. 19 A girl purchases 9 mangoes for Rs. 90 and sells 10 mangoes for Rs.95. Find the gain or loss percentage.
Ans
X 1. 2.5\% loss
5. $5 \%$ loss
6. $2.5 \%$ gain
7. $5 \%$ gain
Q. 20 In the following bar diagram, there are 5 companies A, B, C, D and E. The diagram shows the demand of a product and its production the above five companies.


If $\mathrm{x} \%$ of the demand of the product by Company C is equal to that of the Company B , then find the value of x .
Ans 1. 24
$\times 2.22$
$\times 3.23$
4. 21
Q. 21 A four-digit pin, say abcd, of a lock has different non-zero digits. The digits satisfy $b=$ $2 \mathrm{a}, \mathrm{c}=\mathbf{2 b}, \mathrm{d}=\mathbf{2 c}$. The pin is divisible by $\qquad$ -.

Ans

1. $2,3,5$
2. 2, 3, 7
3. $2,3,13$
4.2,3, 11
Q.22 A horse is grazing in a field. It is tied to a pole with a rope of length 6 m . The horse moves from point A to point B making an arch with an angle of $70^{\circ}$. Find the area of the sector grazed by the horse.
Ans
4. 22 m
5. 21 m
6. 23 m
7. 20 m
Q. $23 \triangle A B C$ and $\triangle D E F$ are similar triangles and their areas are $49 \mathrm{~cm}^{2}$ and $144 \mathrm{~cm}^{2}$ respectively. If $\mathrm{EF}=16.80 \mathrm{~cm}$, then find BC.
Ans
8. 7.5 cm
9. 9.8 cm
3.8 .7 cm
4.11 .4 cm
Q. 24 A can of water and milk mixture contains $60 \%$ milk. A part of this mixture is replaced by another mixture containing $50 \%$ milk and the percentage of milk was found to be $52 \%$. The quantity of mixture replaced is:

Ans

1. $\frac{1}{5}$
2. $\frac{3}{5}$
3. $\frac{4}{5}$
$\times 4 . \frac{2}{5}$
Q. 25 The number of mobile sim-cards in 4 states UT are given in the bar diagram. Study the diagram and answer the question.


In which State UT is there the smallest number of owners of the BSNL Sim-card?
Ans
X 1. Punjab
X 2. UP
3. Delhi
4. Bihar

## Section: English Comprehension

Q. 1 Select the option that can be used as a one-word substitute for the given group of words.

A poll taken of voters leaving the voting place that is usually used for predicting the winners.
Ans

1. Consensus
2. Results
3. Census
4. Exit poll
Q. 2 Select the most appropriate ANTONYM of the given word.

Intense
Ans
X 1. Thrifty
2. Moderate

X 3. Stately
X 4. Lavish
Q. 3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Usually, Ratheesh hasn't / take part in these types / of events because of / his hectic schedule.

Ans
X 1. take part in these types
2. of events because of
3. his hectic schedule
4. Usually, Ratheesh hasn't
Q. 4 Select the most appropriate option to fill in the blank.

There was a $\qquad$ accident last night and the inspector on deputy was unable to raise help when she called from the mountains.
Ans
X 1. goofy
X 2. gloomy

- 3. serious

X4. harsh
Q. 5 Select the most appropriate synonym of the given word. Distant
Ans $\quad$ 1. Farsighted
2. Faraway

X 3. Futuristic
X 4. Forward
Q. 6 Select the most appropriate option that can substitute the underlined segment in the given sentence.
They decided to have a meeting to discuss about the project.
Ans
X 1. to discuss through the project
2. to discuss the project

X 3. to discuss over the project
4. to discuss beyond the project
Q. 7 Select the option that can be used as a one-word substitute for the given group of words.

A formal statement testifying to someone's character and qualifications
Ans
X 1. Document
X 2. Affidavit
2. Testimonial

X 4. Manuscript
Q. 8 Select the INCORRECTLY spelt word in the following sentence.

The poor woman is in excruciating mental anguish, and her loved ones appear to have assisted in exarcerbating her traumatic experiences.
Ans
X 1. anguish
2. excruciating
3. exarcerbating

X 4. traumatic
Q. 9 Select the most appropriate option to fill in the blank.

As there were reports of manipulation of scores in the previous exams, the aspirants demanded a process to ensure $\qquad$ assessment for selection.
Ans
X 1. will o' the wisp
$\times 2$. hole and corner
X 3. well off
4. fair and square
Q. 10 Select the most appropriate option to fill in the blank.

The party was a $\qquad$ hour for everyone, except Mukesh.
Ans
X 1. welcome
2. happy

X 3. dry
X 4. stable
Q. 11 Select the option that expresses the given sentence in passive voice.

Suman was taking a nap
Ans

1. A nap was being taken by Suman.
2. A nap has been taken by Suman.
3. A nap is being taken by Suman.
4. A nap was taken by Suman.
Q. 12 Select the most appropriate meaning of the given idiom. Hold water

Ans
X 1. A diluted argument
2. Appear to be of no value
3. Stop emphasising a point
4. Appear to be valid or reasonable
Q. 13 Select the INCORRECTLY spelt word in the following sentence.

Rajib's research aims to identify the strings that connect man and nature in order to provide a comprehensive examination and asessment of a variety of ecological issues.
Ans
X 1. strings
2. ecological
3. asessment
4. comprehensive
Q. 14 Select the most appropriate ANTONYM of the underlined word.

The concert sounded was in cacophony with every instrument playing in synchronisation.
Ans

1. harmony

X 2. alimony
X 3. bedlam
4. euphony
Q. 15 Rearrange the parts of the sentence in correct order.

Back in Apri
P. an afternoon walking around
Q. the Tillman Sand Ridge Heritage Preserve
R. I was visiting family in South Carolina
S. and my brother and I spent

Ans

1. RSPQ
2. QPRS

X 3. PQRS
4. RQPS
Q. 16 Select the appropriate adverb for the underlined word in the sentence.

I complete forgot her birthday, and I don't know how to make it up to her.
Ans
X 1. completeness
2. completed
3. completing
4. completely
Q. 17 Select the correct direct form of the given sentence.

My teacher forbids to trust one's relatives.
Ans

1. My teacher says, "Never trust your relatives."
( 2. My teacher says, "Never trust my relatives."
X 3. My teacher says, "Never trusted your relatives."
2. My teacher said "Never trust your relatives."
Q. 18 Select the most appropriate ANTONYM of the given word.

Repulsive
Ans
X 1. Steadfast
X 2. Superfluous
3. Pleasant

X 4. Hopeless
Q. 19 Select the correct passive voice form for the given sentence.

Sudha was writing a letter to her husband.
Ans
X 1. A letter were been written by Sudha to her husband.
X 2. A letter were being written by Sudha to her husband.
X 3. A letter was been written by Sudha to her husband.
4. A letter was being written by Sudha to her husband.
Q. 20 Select the option that can be used as a one-word substitute for the given group of words.

Something that is very small/little
Ans
$\times 1$. Few
2. Tiny

X 3. Thin
$\times 4$. Slender

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A great fire (1) $\qquad$ in London in 1666 which (2)___ the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the crowded streets and wooden houses. However, after the fire, London was (4) with wider streets and improved water supplies. New buildings were (5) $\qquad$ using bricks instead of wood.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank no. 1.

Ans
X 1. broke for
X 2. broke in
2. broke out
$\times 4$. broke at

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A great fire (1) $\qquad$ in London in 1666 which (2) $\qquad$ the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the crowded streets and wooden houses. However, after the fire, London was (4) __ with wider streets and improved water supplies. New buildings were (5) $\qquad$ using bricks instead of wood.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank no. 2.

Ans

- 1. destroyed

X 2. smashed
$X$ 3. shattered
X 4. demolished

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. A great fire (1) $\qquad$ in London in 1666 which (2) $\qquad$ the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) through the crowded streets and wooden houses. However, after the fire, London was (4)__ with wider streets and improved water supplies. New buildings were (5) $\qquad$ using bricks instead of wood.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank no. 3.

Ans
X 1. glided
X 2. carried
3. swept

X 4. pulled

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. A great fire (1) $\qquad$ in London in 1666 which (2) $\qquad$ the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the crowded streets and wooden houses. However, after the fire, London was (4) __ with wider streets and improved water supplies. New buildings were (5)__ using bricks instead of wood.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank no. 4.

Ans

1. rebuilt
2. innovated
3. modelled
4. restored

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A great fire (1) $\qquad$ in London in 1666 which (2)
the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the crowded streets and wooden houses. However, after the fire, London was (4) __ with wider streets and improved water supplies. New buildings were (5) $\qquad$ using bricks instead of wood.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank no. 5 .

Ans
X 1. organised
2. erected

X 3. fabricated
$\times 4$. located


[^0]:    Q. 3 In a certain code language, 'CRUST' is written as '201921183' and 'BLAME' is written as '5131122'. How will 'PLASTIC' be written in that language?

    Ans
    X 1.18204165138
    $\times 2.73110209325$
    X 3.71642578102

    - 4.39201911216

[^1]:    Section : Quantitative Aptitude

[^2]:    Section : English Comprehension

[^3]:    Section : English Comprehension

[^4]:    Section: General Awareness

[^5]:    Section: General Awareness

[^6]:    Section : Quantitative Aptitude

[^7]:    Section : Quantitative Aptitude

[^8]:    Section : English Comprehension

[^9]:    Section : Quantitative Aptitude

