DSSSB SEP 2018

Participant ID:	
Participant Name:	
Test Center Name:	Ion Digital Zone IDZ2 Mundka
Test Date:	27/09/2018
Test Time:	12:30 PM - 2:30 PM
Subject:	TGT NATURAL SCIENCE FEMALE

Section : **Mental Ability**

Q.1 Choose the odd figure in the series:

Question ID : **16794316342**

E/5	J/10	T/20	U/25
A	B	C	D

Ans
- ✗ 1. A
- ✗ 2. B
- ✗ 3. C
- ✔ 4. D

Q.2 What is the next figure in the series:

Question ID : **16794316343**

Ans
- ✔ 1.
- ✗ 2.
- ✗ 3.
- ✗ 4.

Q.3 Animals have:

Question ID : **16794316350**

Ans
- ✗ 1. Mobile
- ✗ 2. Tails
- ✔ 3. Legs
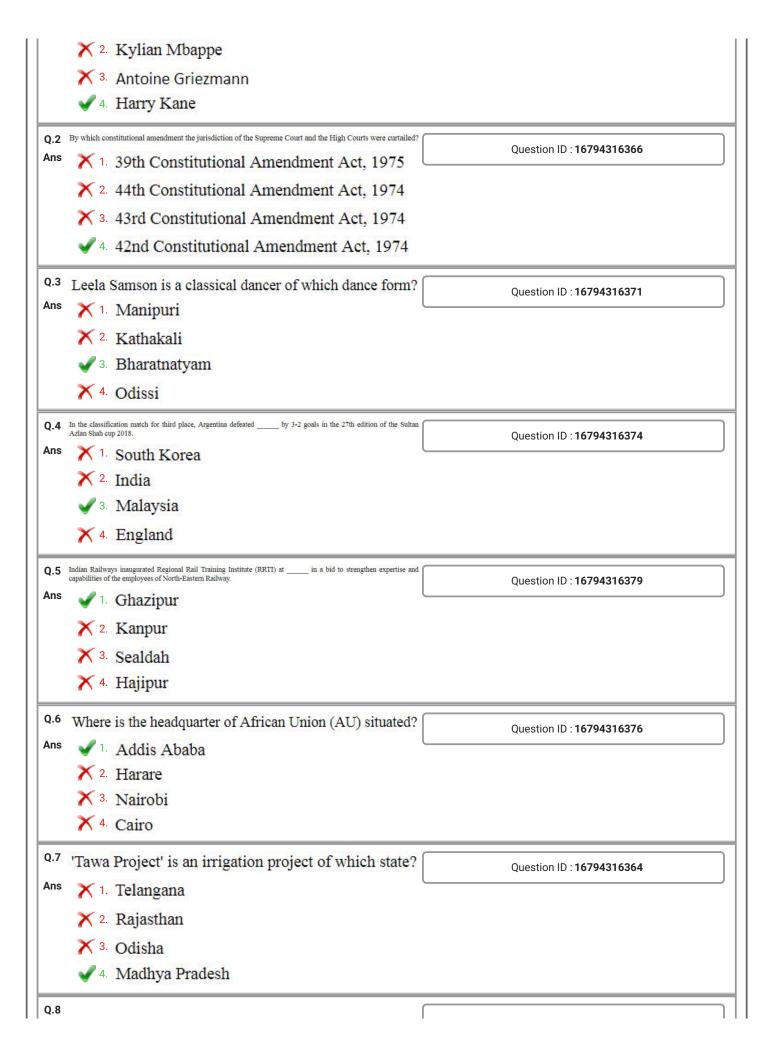
✗ 4. Feathers

Q.4 What will be the next figure in the series:

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Q.5 Spot the embedded figure given below from the options.

Ans

✗ 1.

✗ 2.

✗ 3.

✔ 4.

Q.6 The following pie chart shows information about the books published by a publication company "XYZ". The total number of books published by the company are 12,462 in 2016-17 including color black &white publications.

How many books of competitive exams are published by XYZ in 2016-17 (approximately)?

Ans ✔ 1. 1246

✗ 2. 1869
✗ 3. 3115
✗ 4. 2243

Q.7 Nandini is sister of Namya. How is Namya's brother's mother's only son related to Nandini?

Question ID : **16794316352**

Ans ✔ 1. Brother

✗ 2. Uncle

✗ 3. Father

✗ 4. Cousin

Q.8 'Mare' is related to 'Horse' in the same way as 'Vixen' is related to:

Question ID : **16794316340**

Ans ✔ 1. Fox

✗ 2. Lion

✗ 3. Blue

✗ 4. Dog

Q.9 The following are the conditions for selecting list of a suitable candidates to be called for interview after the written test for the recruitment is conducted/ organized for management-level persons of a multi-national company. For providing accounting services and sales the candidate must
(a) be holding a graduation in basic science with 65% or above or B.E degree with 55% and above marks
(b) have passed the written test with 70% or above marks
(c) the age must be in the group 25 to 30 yrs as on 1/4/18
(d) have experience in an accounting firms for three yrs and diploma in accounting with 60% or above marks
(e) be presently drawing CTC of 6Lakhs per annum and above
In case the applicant who satisfies all other terms above except
1) at (a) above, then be referred as Junior Accountant
2) at (d) & (e) above then be referred as
Trainee-Accountant
Satisfying all the above with experience of 5 yrs then be referred as senior-Accountant
Satisfying all the above criteria (a-e) with CA/ ICWA/ MBA (Finance) then be refereed as manager (Accounts)
Read all the above information and answer the following question:

Radha Mohan has done her graduation in physics with 58% of marks. She has passed the written examination with 76% of marks. She is 27 yrs as on June 2018. She has the experience in the accounting company for four years with salary of 7 Lakhs per annum. She also has passed diploma in accounting with 61% of marks. She may be referred for the position of :

Question ID : **16794316348**

Ans ✗ 1. Senior-Accountant

✔ 2. Junior-Accountant

✗ 3. Manager-Accountant

✗ 4. Trainee-Accountant

Q.10 What will be the missing term in the series:

Question ID : **16794316359**

F, H, J, M, P, T, ?

Ans ✔ 1. X

✗ 2. L

✗ 3. G

✗ 4. T

Q.11 Find the odd pair of words:

Question ID : **16794316356**

Ans ✔ 1. Bullock : Vixen

✗ 2. Cock : Hen

✗ 3. Dog : Bitch

✗ 4. Lord : Lady

Q.12 How would the pattern appear when the transparent sheet is folded at the dotted line:

Ans

 ✗ 1.

 ✗ 2.

 ✔ 3.

 ✗ 4.

Question ID : **16794316349**

Q.13 The ratio between the present ages of M and N is 5 : 8. If N is 6 years older than M, what will be the ratio of the ages of M and N after 6 years?

Question ID : **16794316355**

Ans
✗ 1. 8 : 15
✔ 2. 8 : 11
✗ 3. 16 : 24
✗ 4. 17 : 8

Q.14 Find the odd pair of numerals:

Question ID : **16794316357**

Ans
✗ 1. 64-52
✗ 2. 67-55
✔ 3. 43-33
✗ 4. 82-70

Q.15 Select the option that is related to the third term in the same way as the second term is related to the first term.

Question ID : **16794316341**

Ans

 ✗ 1.

 ✗ 2.

 ✔ 3.

 ✗ 4.

Q.16 Study the following figure carefully and answer the given question:

Which region denotes Americans who are neither singers nor Doctors?

Ans ✔ 1. 9

✘ 2. 13

✘ 3. 15

✘ 4. 3

Q.17 what will be the missing term in the series:

34, 39, 37, 42, ?, 45

Ans ✘ 1. 50

✘ 2. 49

✔ 3. 40

✘ 4. 47

Q.18 A student got thrice as many sums wrong as he got right. If he attempted 60 sums in all, how many did he solve correctly?

Ans ✘ 1. 18

✘ 2. 12

✔ 3. 15

✘ 4. 20

Q.19 You are dancing in the pub. When your friend gets stuck on a live electric wire you-

Choose the correct statement:

Ans ✔ 1. Pull off the wire with wooden stick

✘ 2.
Hold him/her with your hands and try to set back

✘ 3. Hold the wire and pull away

✘ 4. Raise an alarm to call some people for help

Q.20 If A stands for +, B stands for –, C stands for X, find the value of (5C6) A (2C4) B8?

Ans ✘ 1. 32

✘ 2. 40

✘ 3. 38

✔ 4. 30

Section : **General Awareness**

Q.1 Which player was given the Golden Boot award in the 2018 FIFA World Cup?

Ans ✘ 1. Romelu Lukaku

✗ 2. Kylian Mbappe

✗ 3. Antoine Griezmann

✔ 4. Harry Kane

Q.2 By which constitutional amendment the jurisdiction of the Supreme Court and the High Courts were curtailed?

Question ID : **16794316366**

Ans

✗ 1. 39th Constitutional Amendment Act, 1975

✗ 2. 44th Constitutional Amendment Act, 1974

✗ 3. 43rd Constitutional Amendment Act, 1974

✔ 4. 42nd Constitutional Amendment Act, 1974

Q.3 Leela Samson is a classical dancer of which dance form?

Question ID : **16794316371**

Ans

✗ 1. Manipuri

✗ 2. Kathakali

✔ 3. Bharatnatyam

✗ 4. Odissi

Q.4 In the classification match for third place, Argentina defeated _____ by 3-2 goals in the 27th edition of the Sultan Azlan Shah cup 2018.

Question ID : **16794316374**

Ans

✗ 1. South Korea

✗ 2. India

✔ 3. Malaysia

✗ 4. England

Q.5 Indian Railways inaugurated Regional Rail Training Institute (RRTI) at _____ in a bid to strengthen expertise and capabilities of the employees of North-Eastern Railway.

Question ID : **16794316379**

Ans

✔ 1. Ghazipur

✗ 2. Kanpur

✗ 3. Sealdah

✗ 4. Hajipur

Q.6 Where is the headquarter of African Union (AU) situated?

Question ID : **16794316376**

Ans

✔ 1. Addis Ababa

✗ 2. Harare

✗ 3. Nairobi

✗ 4. Cairo

Q.7 'Tawa Project' is an irrigation project of which state?

Question ID : **16794316364**

Ans

✗ 1. Telangana

✗ 2. Rajasthan

✗ 3. Odisha

✔ 4. Madhya Pradesh

Q.8

According to updated World Bank figures on GDP of countries for 2017, India has become world's _____ biggest economy.

Question ID : **16794316368**

Ans
- ✗ 1. Tenth
- ✗ 2. Eighth
- ✗ 3. Seventh
- ✔ 4. Sixth

Q.9 Which country ranked 1st among 100 countries in recently released Global Real Estate Transparency Index (GRETI)?

Question ID : **16794316369**

Ans
- ✗ 1. Australia
- ✗ 2. France
- ✔ 3. UK
- ✗ 4. US

Q.10 Ministry of Earth Sciences has unveiled SAFAR (System of Air Quality and Weather Forecasting), the first of its kind and most advanced system in India in _____.

Question ID : **16794316377**

Ans
- ✗ 1. Mumbai
- ✗ 2. Pune
- ✔ 3. Delhi
- ✗ 4. Ahmedabad

Q.11 Which of the following rulers established the Gupta dynasty?

Question ID : **16794316360**

Ans
- ✗ 1. Ramgupta
- ✔ 2. Sri Gupta
- ✗ 3. Chandragupta I
- ✗ 4. Samudragupta

Q.12 The _____ of Kargil Vijay Diwas was celebrated across India on 26 July 2018.

Question ID : **16794316378**

Ans
- ✗ 1. 16th anniversary
- ✗ 2. 17th anniversary
- ✔ 3. 19th anniversary
- ✗ 4. 18th anniversary

Q.13 Where is the capital city of Belarus located?

Question ID : **16794316363**

Ans
- ✗ 1. Lisbon
- ✔ 2. Minsk
- ✗ 3. Baku
- ✗ 4. Bucharest

Q.14 Kavadi is a folk dance associated with which state of India?

Question ID : **16794316370**

Ans
- ✗ 1. Goa
- ✔ 2. Tamil Nadu
- ✗ 3. Kerala
- ✗ 4. Karnataka

Q.15 Who among the following is a famous 'Dhrupad' singer of India?

Question ID : 16794316372

Ans ✔ 1. Ustad Rahim Fahimuddin Dagar

✘ 2. Ustad Bade Ghulam Ali Khan

✘ 3. Ustad Ghulam Mustafa Khan

✘ 4. Ustad Mazhar Ali Khan

Q.16 What is the study of new born called?

Question ID : 16794316375

Ans ✘ 1. Kalology

✘ 2. Gynecology

✘ 3. Cytology

✔ 4. Neonatology

Q.17 On 10th May Sepoy Mutiny broke out at:

Question ID : 16794316362

Ans ✘ 1. Barrackpore

✔ 2. Merrut

✘ 3. Jhansi

✘ 4. Kanpur

Q.18 How many Sangams (assembly of Tamil poets) were held in south India?

Question ID : 16794316361

Ans ✘ 1. Four

✔ 2. Three

✘ 3. Five

✘ 4. Two

Q.19 Which of the following article provides that the State shall endeavour for the promotion of international peace and security?

Question ID : 16794316365

Ans ✘ 1. Article 47

✔ 2. Article 51

✘ 3. Article 50

✘ 4. Article 45

Q.20 The 5th President of India was _____.

Question ID : 16794316367

Ans ✔ 1. Dr. Fakhruddin Ali Ahmed

✘ 2. Shri V.V. Giri

✘ 3. Giani Zail Singh

✘ 4. Shri Neelam Sanjeeva Reddy
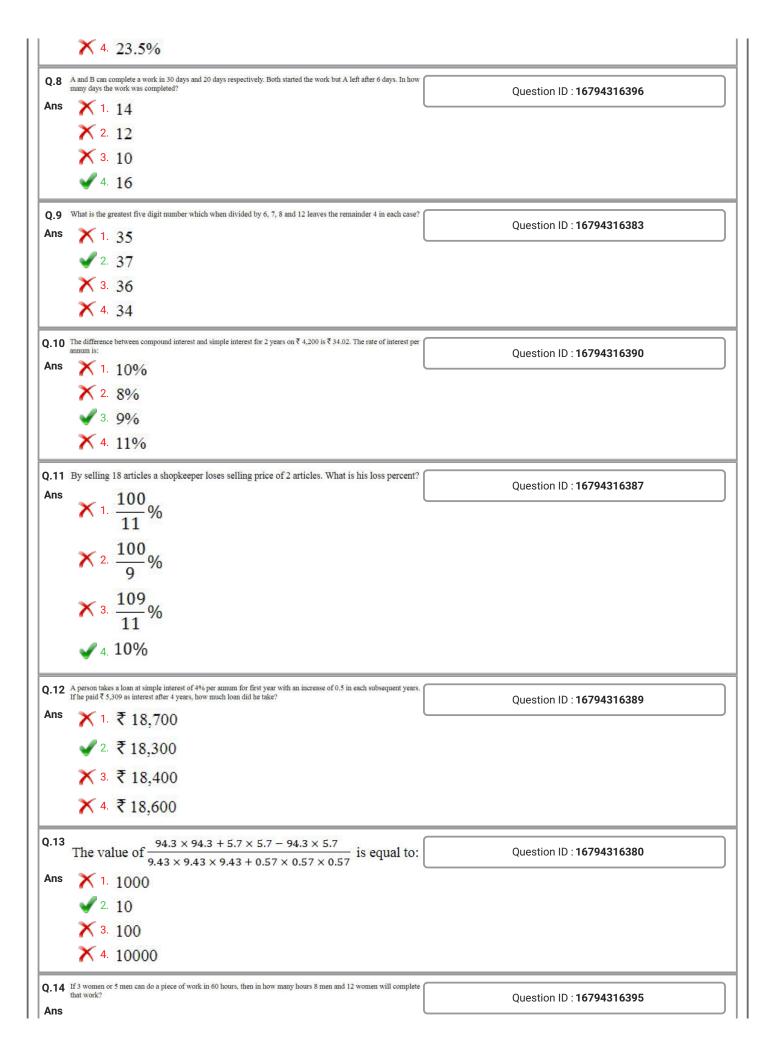
Section : **Arithmetic Ability**

Q.1 An alloy of copper and zinc contains 80% zinc by weight. If in 350 g of this alloy 50 g of copper is added, then what is percentage of copper in the new alloy?

Question ID : 16794316385

Ans ✔ 1. 30%

✗ 2. 40%

✗ 3. 32%

✗ 4. 25%

Q.2 The sides of a triangle are 16 cm, 30 cm and 34 cm. What is the length of its shortest altitude? (correct to one decimal place)

Ans ✗ 1. 14.6 cm

✗ 2. 16 cm

✔ 3. 14.1 cm

✗ 4. 15.4 cm

Q.3 The sum of dimensions of a cuboid are 30 cm, and its diagonal is $2\sqrt{77}$ cm. What is the total surface area of the cuboid?

Ans ✗ 1. $576 \, cm^2$

✗ 2. $596 \, cm^2$

✔ 3. $592 \, cm^2$

✗ 4. $588 \, cm^2$

Q.4 The HCF of two numbers is 18 and their sum is 288. If both numbers are three digit numbers, what is the sum of their reciprocals?

Ans ✗ 1. $\dfrac{16}{63}$

✔ 2. $\dfrac{8}{567}$

✗ 3. $\dfrac{7}{567}$

✗ 4. $\dfrac{8}{495}$

Q.5 If $a : b = 2 : 5$, $b : c = 7 : 8$, then $5a : 3b : 7c$ is equal to:

Ans ✗ 1. $5 : 3 : 7$

✔ 2. $2 : 3 : 8$

✗ 3. $4 : 6 : 15$

✗ 4. $3 : 6 : 14$

Q.6 A train without stoppage travels on an average speed of 80 km/h and with stoppage it travels at 64 km/h. How many minutes does the train stop on an average per hour?

Ans ✗ 1. 14

✗ 2. 16

✔ 3. 12

✗ 4. 10

Q.7 A trader marks his goods 50% above cost price. He sells 40% of his stock at 10% discount, 30% of stock at 20% discount and remaining stock at 30% discount on marked price. What is his overall profit percent?

Ans ✔ 1. 21.5%

✗ 2. 18.5%

✗ 3. 25.5%

✗ 4. 23.5%

Q.8 A and B can complete a work in 30 days and 20 days respectively. Both started the work but A left after 6 days. In how many days the work was completed?

Question ID : **16794316396**

Ans ✗ 1. 14

✗ 2. 12

✗ 3. 10

✔ 4. 16

Q.9 What is the greatest five digit number which when divided by 6, 7, 8 and 12 leaves the remainder 4 in each case?

Question ID : **16794316383**

Ans ✗ 1. 35

✔ 2. 37

✗ 3. 36

✗ 4. 34

Q.10 The difference between compound interest and simple interest for 2 years on ₹ 4,200 is ₹ 34.02. The rate of interest per annum is:

Question ID : **16794316390**

Ans ✗ 1. 10%

✗ 2. 8%

✔ 3. 9%

✗ 4. 11%

Q.11 By selling 18 articles a shopkeeper loses selling price of 2 articles. What is his loss percent?

Question ID : **16794316387**

Ans ✗ 1. $\dfrac{100}{11}$%

✗ 2. $\dfrac{100}{9}$%

✗ 3. $\dfrac{109}{11}$%

✔ 4. 10%

Q.12 A person takes a loan at simple interest of 4% per annum for first year with an increase of 0.5 in each subsequent years. If he paid ₹ 5,309 as interest after 4 years, how much loan did he take?

Question ID : **16794316389**

Ans ✗ 1. ₹ 18,700

✔ 2. ₹ 18,300

✗ 3. ₹ 18,400

✗ 4. ₹ 18,600

Q.13 The value of $\dfrac{94.3 \times 94.3 + 5.7 \times 5.7 - 94.3 \times 5.7}{9.43 \times 9.43 \times 9.43 + 0.57 \times 0.57 \times 0.57}$ is equal to:

Question ID : **16794316380**

Ans ✗ 1. 1000

✔ 2. 10

✗ 3. 100

✗ 4. 10000

Q.14 If 3 women or 5 men can do a piece of work in 60 hours, then in how many hours 8 men and 12 women will complete that work?

Question ID : **16794316395**

Ans

✅ 1. 12
❌ 2. 9
❌ 3. 10
❌ 4. 8

Q.15 A boat can travel 16 km upstream and return downstream to original point in 2 hours 20 minutes. If speed of stream is 2 km/h, what is the speed of boat in still water in km/h?

Ans ✅ 1. 14
❌ 2. 16
❌ 3. 18
❌ 4. 15

Q.16 The value of $1 + \dfrac{1}{2 + \dfrac{1}{3 + \frac{5}{6}}}$ is equal to:

Ans

❌ 1. $\dfrac{77}{52}$

❌ 2. $\dfrac{51}{23}$

✅ 3. $\dfrac{75}{52}$

❌ 4. $\dfrac{49}{21}$

Q.17 In an examination 260 students appeared. Of these, 68% passed in mathematics, 72% passed in science and 20% failed in both subjects. How many students passed in both subjects?

Ans ❌ 1. 148
✅ 2. 156
❌ 3. 104
❌ 4. 132

Comprehension:

The following table gives the savings in rupees, from the pocket money of A and B during 6 months. Read the table and answer the following questions:

Month	March	April	May	June	July	August
A	140	120	100	160	140	140
B	180	140	100	140	130	210

SubQuestion No : 18

Q.18 If savings of B are represented in a pie-chart, what is the central angle of the sector representing the savings for the month of June?

Ans ✗ 1. 60°

✗ 2. 62°

✔ 3. 64°

✗ 4. 66°

Comprehension:

The following table gives the savings in rupees, from the pocket money of A and B during 6 months. Read the table and answer the following questions:

Month	March	April	May	June	July	August
A	140	120	100	160	140	140
B	180	140	100	140	130	210

SubQuestion No : 19

Q.19 The savings of B are what percent more than savings of A?

Ans ✔ 1. 12.5%

✗ 2. 15%

✗ 3. 10%

✗ 4. $\dfrac{100}{9}\%$

Comprehension:

The following table gives the savings in rupees, from the pocket money of A and B during 6 months. Read the table and answer the following questions:

Month	March	April	May	June	July	August
A	140	120	100	160	140	140
B	180	140	100	140	130	210

SubQuestion No : 20

Q.20 The savings of A for the month of April is what percent of total savings of A of all 6 months?

Ans ✗ 1. 12%

✗ 2. 15.4%
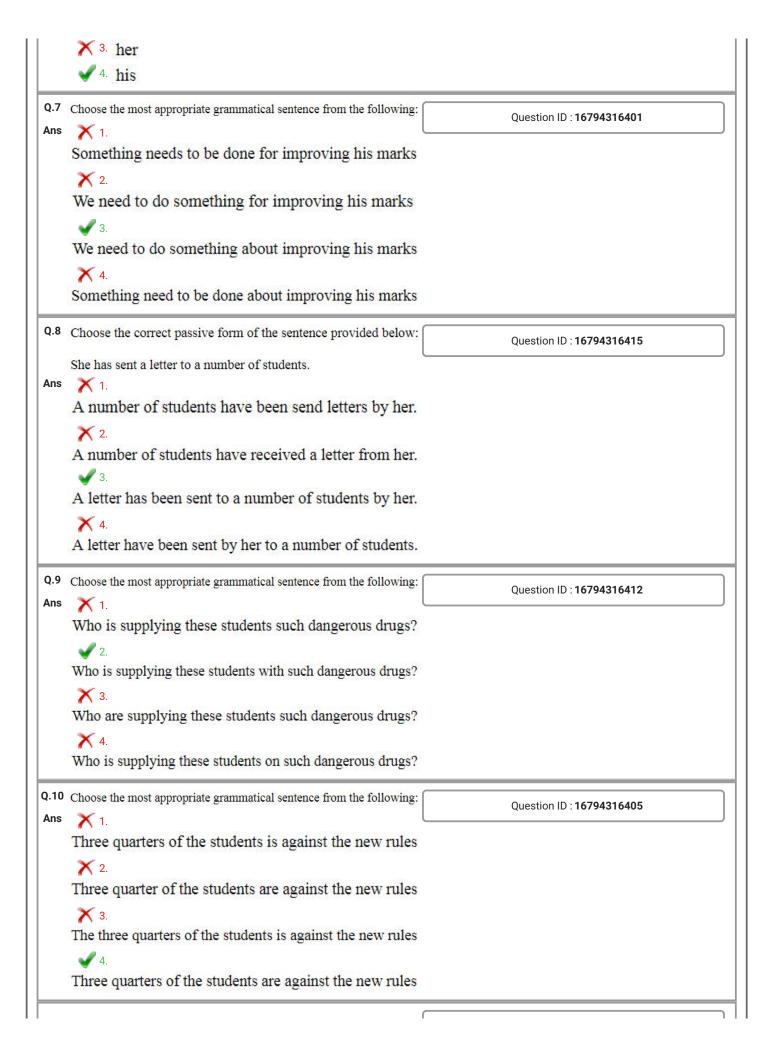
✗ 3. 16%

✔ 4. 15%

Section : **General English**

Q.1 Choose the most appropriate grammatical sentence from the following:

Ans

✔ 1. Is your brother's wife attending the party?

✘ 2. Are your brothers wife attending the party?

✘ 3. Is your brother wife attending the party?

✘ 4. Is your brothers wife attending the party?

Q.2 Fill in the blank with the most appropriate option:

One of my best friends who regularly _____ me on my shopping trips is going abroad.

Ans

✘ 1. were joining

✘ 2. join

✔ 3. joins

✘ 4. is joining

Q.3 Choose the most appropriate grammatical sentence from the following:

Ans

✔ 1. What will you do when you finish classes?

✘ 2. What would you do when you will finish classes?

✘ 3. What would you do when you finishes classes?

✘ 4. What will you do when you will finish classes?

Q.4 Choose the most appropriate grammatical sentence from the following:

Ans

✘ 1. The newly wedded couple have decided to fly to Singapore for their honeymoon tomorrow evening.

✘ 2. The newly wedded couples has decided to fly to Singapore for their honeymoon tomorrow evening.

✔ 3. The newly wedded couple has decided to fly to Singapore for their honeymoon tomorrow evening.

✘ 4. The newly wedded couple have decide to fly to Singapore for honeymoon tomorrow evening.

Q.5 Choose the most appropriate grammatical sentence from the following:

Ans

✘ 1. I have had a great time at your party last week.

✘ 2. I had a greatest time at your party last week.

✔ 3. I had a great time at your party last week.

✘ 4. I have a great time at your party last week.

Q.6 Fill in the blank with the most appropriate option:

"Everyone must get _____ papers ready". She said to all the boys.

Ans

✘ 1. their's

✘ 2. their

✗ 3. her

✔ 4. his

Q.7 Choose the most appropriate grammatical sentence from the following:

Ans ✗ 1.

Something needs to be done for improving his marks

✗ 2.

We need to do something for improving his marks

✔ 3.

We need to do something about improving his marks

✗ 4.

Something need to be done about improving his marks

Q.8 Choose the correct passive form of the sentence provided below:

She has sent a letter to a number of students.

Ans ✗ 1.

A number of students have been send letters by her.

✗ 2.

A number of students have received a letter from her.

✔ 3.

A letter has been sent to a number of students by her.

✗ 4.

A letter have been sent by her to a number of students.

Q.9 Choose the most appropriate grammatical sentence from the following:

Ans ✗ 1.

Who is supplying these students such dangerous drugs?

✔ 2.

Who is supplying these students with such dangerous drugs?

✗ 3.

Who are supplying these students such dangerous drugs?

✗ 4.

Who is supplying these students on such dangerous drugs?

Q.10 Choose the most appropriate grammatical sentence from the following:

Ans ✗ 1.

Three quarters of the students is against the new rules

✗ 2.

Three quarter of the students are against the new rules

✗ 3.

The three quarters of the students is against the new rules

✔ 4.

Three quarters of the students are against the new rules

Q.11 Choose the most appropriate grammatical sentence from the following:

Ans ✗ 1.

The number of engineering colleges are gradually being reduced.

✗ 2.

The number of engineering colleges are gradually reduced.

✔ 3.

The number of engineering colleges is gradually being reduced.

✗ 4.

The number of engineering colleges is gradually reduced.

Q.12 Choose the most appropriate grammatical sentence from the following:

Ans ✗ 1.

Although he was angry, but he wouldn't accept the apology.

✗ 2.

Since she was driving, so we decided to go with her.

✗ 3.

Though it is raining, yet we did not take the umbrella.

✔ 4.

Although she confessed the truth, we couldn't believe her.

Q.13 Fill in the blank with the most appropriate option:

If you had told me what was wrong, _____.

Ans ✗ 1. I will have hesitate to help you

✔ 2. I would not have hesitated to help you

✗ 3. I will not have hesitated to help you

✗ 4. I would not hesitate to help you

Q.14 Fill in the blank with the most appropriate option:

She seems to always _____ things to do that she _____ all the time.

Ans ✗ 1. has, has forgotten

✔ 2. have, forgets

✗ 3. has, forget

✗ 4. have, forget

Q.15 Fill in the blank with the most appropriate option:

The arrival of many delegates _____ a positive outlook.

Ans ✗ 1. are

✗ 2. Indicate

✔ 3. indicates

✗ 4. is

Comprehension:

Picnic Comma Lightning by Laurence Scott–
perceptions of reality in the age of Instagram: Review

Laurence Scott's first book, *The Four-Dimensional Human*, zoomed straight on to the Samuel Johnson (now the Baillie Gifford) prize shortlist in 2015. In a crowded field of commentary on our lives with new technology, his first-hand reports on digital existence, narrated with blushes and allurements and a scholar's grasp of intellectual history, were not like anyone else's.

Picnic Comma Lightning brings us further meditations on what digital life is doing to the way we find meaning in the world. Here again, Scott ponders his world with a mix of delighted avidity, candour and melancholy. But this second book goes deeper, ranges even wider, and takes many different forms in the mind. It is a philosophical meditation on perceptions of reality, achieved by means of beguilingly playful moves from confession to anthropology to social analysis. It is also an elegy for two lost parents, who died in quick succession when the author was in his early 30s.

For novice technonauts who get easily lost in the seas of social media, Scott's willingness to think about continuities with our old lives, and indeed with the dilemmas of centuries ago, is encouraging. If we can think about the different forms of attention elicited by a Holbein painting, for instance, it seems we can turn to Instagram with the same questions in mind.

In the tradition of Barthes's mythographies of everyday life, Scott makes banal things shimmer with meaning. He finds, in Andy Murray's grimace or in Nigella's posts about filming Christmas dinner in July, signposts to the underlying structure of things. He operates on a dauntingly large conceptual scale, but there's a sense of embrace in his cleverness. It's not often that a highly ambitious work of social analysis speaks so determinedly to the heart.

SubQuestion No : 16

Q.16 When compared to *the Four-Dimensional Human*, the book *Picnic Comma Lightning?*

Question ID : 16794316420

Ans ✗ 1.

Makes banal things shimmer with meaning and discusses the dilemmas of human existence

✔ 2.

Delves into perceptions of reality through social analysis interlaced with personal perspectives

❌ 3. Is like a Holbein painting which is then compared to Instagram

❌ 4. Describes life as digital existence with a mix of personal and intellectual experiences

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Comprehension:

Picnic Comma Lightning by Laurence Scott–
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SubQuestion No : 17

Q.17 Choose the word that means the opposite of 'banal'.

Ans ✗ 1. Native

✗ 2. Trite

✗ 3. Vapid

✓ 4. Ingenious

Comprehension:

Picnic Comma Lightning by Laurence Scott–
perceptions of reality in the age of Instagram: Review

Laurence Scott's first book, *The Four-Dimensional Human*, zoomed straight on to the Samuel Johnson (now the Baillie Gifford) prize shortlist in 2015. In a crowded field of commentary on our lives with new technology, his first-hand reports on digital existence, narrated with blushes and allurements and a scholar's grasp of intellectual history, were not like anyone else's.

Picnic Comma Lightning brings us further meditations on what digital life is doing to the way we find meaning in the world. Here again, Scott ponders his world with a mix of delighted avidity, candour and melancholy. But this second book goes deeper, ranges even wider, and takes many different forms in the mind. It is a philosophical meditation on perceptions of reality, achieved by means of beguilingly playful moves from confession to anthropology to social analysis. It is also an elegy for two lost parents, who died in quick succession when the author was in his early 30s.

For novice technonauts who get easily lost in the seas of social media, Scott's willingness to think about continuities with our old lives, and indeed with the dilemmas of centuries ago, is encouraging. If we can think about the different forms of attention elicited by a Holbein painting, for instance, it seems we can turn to Instagram with the same questions in mind.

In the tradition of Barthes's mythographies of everyday life, Scott makes banal things shimmer with meaning. He finds, in Andy Murray's grimace or in Nigella's posts about filming Christmas dinner in July, signposts to the underlying structure of things. He operates on a dauntingly large conceptual scale, but there's a sense of embrace in his cleverness. It's not often that a highly ambitious work of social analysis speaks so determinedly to the heart.

SubQuestion No : 18

Q.18 Choose the most suitable meaning of the word 'avidity' based on the reading of the passage:

Ans ✗ 1. Alleviation

✗ 2. Abruptness

✔ 3. Fervour

✗ 4. Brevity

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Q.19 According to the passage, a 'technonaut' is:

Ans ✗ 1. A person addicted to technology

✗ 2. Someone who is confused by technology

✔ 3. A voyager in the sea of technology

✗ 4. Someone who is addicted to social media

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SubQuestion No : 20

Q.20 Based on your understanding on the passage, choose the statement that correct.

Ans ✗ 1. The book is dedicated to the author's parents who died in a car accident.

✗ 2. The reviewer feels that in terms of its structure, the book has a dauntingly large conceptual scale which makes it difficult to comprehend.

✓ 3. The book manages to appeal to the reader's emotions while conducting a highly intellectual social analysis.

✗ 4. Laurence Scott manages to follow Barthe's mythographies of everyday life.

Section : **General Hindi**

Q.1 वर्णमाला में 'ङ' से पहले कौन-सा वर्ण आता है?

Ans ✓ 1. घ

✗ 2. ढ

✗ 3. ध

✗ 4. ठ

Q.2 'अभ्युदय' शब्द में उपसर्ग है:

Ans ✗ 1. अभ्यु

✗ 2. अभ्

✓ 3. अभि

✗ 4. अ

Q.3 कौन-सा वाक्य अशुद्ध है?

Ans ✗ 1. बच्चे काम कर रहे हैं।

✗ 2. भलाई का जमाना ही नहीं।

✓ 3. सज्जन आदमी किसी का बुरा नहीं करते।

✗ 4. दुर्जन से दूर रहो।

Q.4 कौन-सा शब्द अशुद्ध है?

Ans ✗ 1. भावुक

❌ 2. अनुभूति

✅ 3. कृपा

❌ 4. विषयान्तर

Q.5 'उसकी <u>वीरता</u> से सब चकित थे।' वाक्य का रेखांकित पद है:

Ans ❌ 1. सर्वनाम

❌ 2. क्रिया

❌ 3. विशेषण

✅ 4. भाववाचक संज्ञा

Q.6 'वत्स्र्य' शब्द का वर्ण विच्छेद होगा:

Ans ✅ 1. व् + अ + र् + त् + स् + य् + अ

❌ 2. व् + अ त् + अ स् + र् य् + अ

❌ 3. व् + अ + त् + स् र् य् + अ

❌ 4. व् + अ त् + स् + अ + र् + य् + अ

Q.7 'जिसने प्रतिष्ठा पा ली हो।' वाक्यांश के लिए एक शब्द है:

Ans ❌ 1. अग्रगण्य

❌ 2. ख्यातिप्राप्त

❌ 3. गणमान्य

✅ 4. लब्धप्रतिष्ठ

Q.8 'धरती' शब्द का पर्यायवाची नहीं है:

Ans ✅ 1. उर्वर

❌ 2. वसुंधरा

❌ 3. मेदिनी

❌ 4. भूमि

Q.9 'अन्नाभाव' शब्द बना है:

Ans ✅ 1. अन्न + अभवि से

❌ 2. अन्न + भाव से

❌ 3. अन्नाभा + व से

❌ 4. अन्ना + भवि से

Q.10 'अधजल गगरी छलकत जाए' का अर्थ होता है:

Ans ❌ 1. कारण न होने पर कार्य न होना

✔ 2. डींग हाँकना

✘ 3. अपना दोष न देखना

✘ 4. अधिक लाभ होना

Q.11 'नाक कट जाना' मुहावरे का अर्थ है:

Ans ✘ 1. अधिक प्रिय होना

✔ 2. प्रतिष्ठा नष्ट होना

✘ 3. तुरंत क्रुद्ध होना

✘ 4. बदनाम करना

Q.12 निम्नलिखित में से तत्सम शब्द कौन-सा है?

Ans ✘ 1. दोपहर

✘ 2. चाँदनी

✔ 3. किरण

✘ 4. काला

Q.13 'वृक्ष' शब्द का बहुवचन (अविभक्तिक) रूप होगा:

Ans ✔ 1. वृक्ष

✘ 2. वृक्षो

✘ 3. वृक्षा

✘ 4. वृक्षों

Q.14 'वही अपराधी है।' रेखांकित का विलोम होगा:

Ans ✘ 1. कुख्यात

✔ 2. निरपराध

✘ 3. निर्दोष

✘ 4. कुसूरवार

Q.15 'तद्भव' शब्द छाँटिए।

Ans ✔ 1. दही

✘ 2. मुख

✘ 3. दुग्ध

✘ 4. आहार

Q.16

'ग्रामगत' शब्द में समास है:

Question ID : 16794316428

Ans
- ✗ 1. द्वंद्व
- ✓ 2. तत्पुरूष
- ✗ 3. बहुब्रीहि
- ✗ 4. अव्ययीभाव

Q.17 'औपचारिक' शब्द में प्रत्येय है:

Question ID : 16794316430

Ans
- ✗ 1. अ
- ✗ 2. रिक
- ✓ 3. इक
- ✗ 4. क

Q.18 'मैंने उसे दोपहर को देखा था।' वाक्य में कारक है:

Question ID : 16794316426

Ans
- ✓ 1. अधिकरण
- ✗ 2. कर्ता
- ✗ 3. करण
- ✗ 4. कर्म

Q.19 'मोहन खाना खाने जा रहा है।' वाक्य का काल है:

Question ID : 16794316425

Ans
- ✗ 1. पूर्ण भूत
- ✗ 2. अपूर्ण भूत
- ✓ 3. अपूर्ण वर्तमान
- ✗ 4. पूर्ण वर्तमान

Q.20 कर्तृवाच्य वाला वाक्य छाँटिए।

Question ID : 16794316438

Ans
- ✗ 1. सारा सामान लाया जा चुका है।
- ✗ 2. भोजन कर लिया जाए।
- ✗ 3. प्रश्नपत्र बनाया गया।
- ✓ 4. आज हम यहीं रुकेंगे।

Section : **Subject Related**
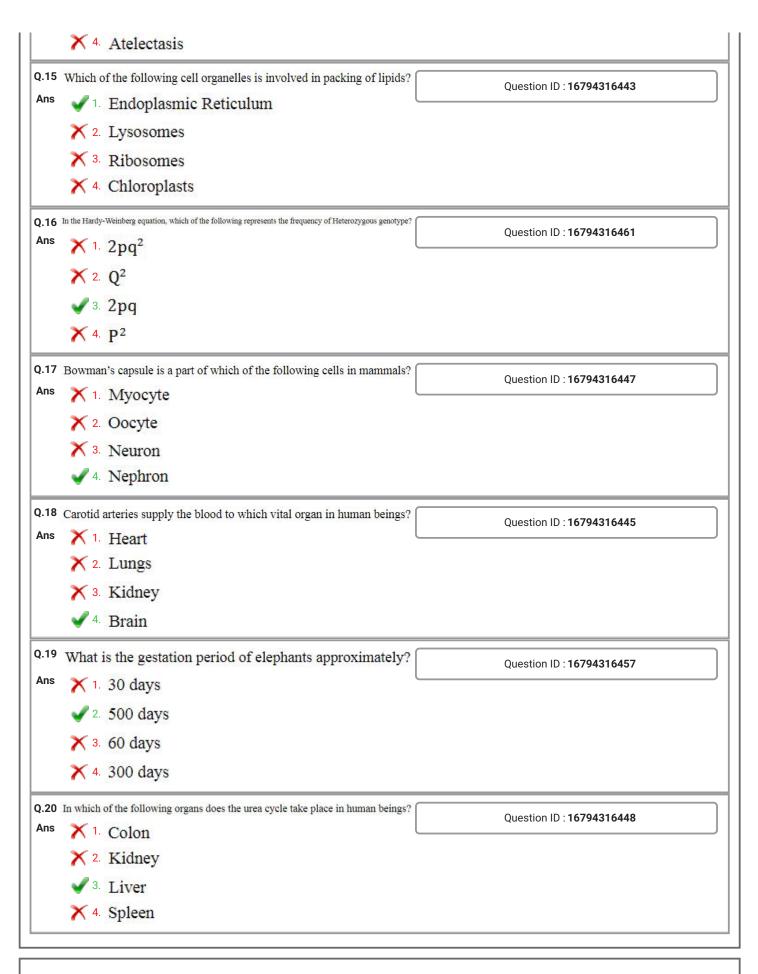
Q.1 Which of the following organisms is an example of Chemotrophic nutrition?

Question ID : 16794316442

Ans
- ✗ 1. Spirogyra
- ✗ 2. Paramecium

✗ 3. Clostridium

✓ 4. Archaebacteria

Q.2 The two cerebral hemispheres of the human brain are inter-connected by which of the following tissues?

Ans

✗ 1. Corpus albicans

✗ 2. Corpus delicti

✓ 3. Corpus callosum

✗ 4. Corpus luteum

Question ID : **16794316450**

Q.3 Bacteriophages are classified under which organisms?

Ans

✓ 1. Viruses

✗ 2. Bacteria

✗ 3. Protozoa

✗ 4. Fungi

Question ID : **16794316459**

Q.4 Which of the following glands secretes the hormone Secretin?

Ans

✗ 1. Pancreas

✓ 2. Duodenum

✗ 3. Kidney

✗ 4. Liver

Question ID : **16794316453**

Q.5 Which of the following glands releases ADH (antidiuretic hormone) or Vasopressin?

Ans

✗ 1. Kidney

✗ 2. Thyroid gland

✓ 3. Pituitary gland

✗ 4. Liver

Question ID : **16794316454**

Q.6 During asexual reproduction, the formation of Gemmules is seen in which of the following organisms?

Ans

✗ 1. Protozoa

✓ 2. Sponges

✗ 3. Earthworms

✗ 4. Bacteria

Question ID : **16794316456**

Q.7 What is the normal pH level of human blood?

Ans

✗ 1. 4.35

✗ 2. 2.35

✗ 3. 6.35

✓ 4. 7.35

Question ID : **16794316444**

Q.8 Stomata play a major role in which of the following life processes?

Ans

✗ 1. Circulation

Question ID : **16794316446**

❌ 2. Photosynthesis

❌ 3. Respiration

✅ 4. Transpiration

Q.9 In positive Geotropism:

Question ID : **16794316452**

Ans ✅ 1. Downward growth of plant roots is seen

❌ 2. Downward growth of plant shoots is seen

❌ 3. Upward growth of plant shoots is seen

❌ 4. Upward growth of plant roots is seen

Q.10 Which of the following statements is FALSE?

Question ID : **16794316455**

Ans ❌ 1.

The Pituitary gland is also known as 'Hypophysis cerebri'

❌ 2.

98% of Pancreas is formed by Exocrine cells

❌ 3. Adenohypophysis releases FSH

✅ 4. The Thyroid gland releases TSH

Q.11 Which of the following Cranial nerves supplies the face?

Question ID : **16794316449**

Ans ❌ 1. X

❌ 2. IX

✅ 3. VII

❌ 4. XII

Q.12 Which of the following hormones plays a major role during Parturition in human beings?

Question ID : **16794316458**

Ans ❌ 1. Prolactin

✅ 2. Oxytocin

❌ 3. Estrogen

❌ 4. Progesterone

Q.13 Which of the following is a Non-sense codon in Genetic code?

Question ID : **16794316460**

Ans ❌ 1. AUG

❌ 2. GUG

✅ 3. UAG

❌ 4. AGU

Q.14 In which of the following conditions does the patient have an altered posture and walking style?

Question ID : **16794316451**

Ans ❌ 1. Aphasia

✅ 2. Ataxia

❌ 3. Agnosia

✗ 4. Atelectasis

Q.15 Which of the following cell organelles is involved in packing of lipids?

Question ID : **16794316443**

Ans ✔ 1. Endoplasmic Reticulum

✗ 2. Lysosomes

✗ 3. Ribosomes

✗ 4. Chloroplasts

Q.16 In the Hardy-Weinberg equation, which of the following represents the frequency of Heterozygous genotype?

Question ID : **16794316461**

Ans ✗ 1. $2pq^2$

✗ 2. Q^2

✔ 3. $2pq$

✗ 4. P^2

Q.17 Bowman's capsule is a part of which of the following cells in mammals?

Question ID : **16794316447**

Ans ✗ 1. Myocyte

✗ 2. Oocyte

✗ 3. Neuron

✔ 4. Nephron

Q.18 Carotid arteries supply the blood to which vital organ in human beings?

Question ID : **16794316445**

Ans ✗ 1. Heart

✗ 2. Lungs

✗ 3. Kidney

✔ 4. Brain

Q.19 What is the gestation period of elephants approximately?

Question ID : **16794316457**

Ans ✗ 1. 30 days

✔ 2. 500 days

✗ 3. 60 days

✗ 4. 300 days

Q.20 In which of the following organs does the urea cycle take place in human beings?

Question ID : **16794316448**

Ans ✗ 1. Colon

✗ 2. Kidney

✔ 3. Liver

✗ 4. Spleen

Section : **Subject Related**

Q.1 What is a common feature between Rhizobium and Azospirillum?

Ans
- ✗ 1. Both are nitrogen fixing fungi
- ✔ 2. Both are nitrogen fixing bacteria
- ✗ 3. Both are harmful for plants
- ✗ 4. Both are parasites

Q.2 Which of the following are responsible for acid rains formation?

Ans
- ✗ 1. CO_2 & N_2O
- ✔ 2. SO_2 & NO_2
- ✗ 3. CO & CO_2
- ✗ 4. CO_2 & NO_2

Q.3 The build-up of toxins in a food chain is known as:

Ans
- ✗ 1. Bio-augmentation
- ✗ 2. Bio-accumulation
- ✔ 3. Bio-magnification
- ✗ 4. Bio-degradation

Q.4 The process of change in structure of a species of a community over time is known as:

Ans
- ✗ 1. Ecosphere
- ✗ 2. Ecological niche
- ✔ 3. Ecological succession
- ✗ 4. Ecotone

Q.5 Green Revolution is associated with which of the following?

Ans
- ✗ 1. Sericulture
- ✔ 2. Agriculture
- ✗ 3. Aquaculture
- ✗ 4. Vermiculture

Q.6 Which of the following is NOT a Greenhouse gas?

Ans
- ✗ 1. CO_2
- ✗ 2. Ozone
- ✗ 3. N_2O
- ✔ 4. SO_2

Q.7 Which of the following chemicals damage the Ozone layer?

Ans
- ✗ 1. Sulphur hexafluoride
- ✗ 2. Sulfuric acid

✔️ 3. Chlorofluorocarbons

❌ 4. Hexachloro carbons

Q.8 Which of the following is an example of a Persistent Organic pollutant?

Question ID : **16794316474**

Ans ✔️ 1. $C_{12}H_8C_{16}$

❌ 2. H_2SO_4

❌ 3. NO_2

❌ 4. HNO_3

Q.9 Which of the following is a renewable source of energy?

Question ID : **16794316469**

Ans ❌ 1. Petroleum

❌ 2. Coal

✔️ 3. Sunlight

❌ 4. Fossil fuels

Q.10 Which of the following is the lowest region of atmosphere?

Question ID : **16794316464**

Ans ✔️ 1. Troposphere

❌ 2. Stratosphere

❌ 3. Ionosphere

❌ 4. Exosphere

Q.11 On which date is World Earth Day celebrated?

Question ID : **16794316478**

Ans ✔️ 1. 22nd April

❌ 2. 22nd December

❌ 3. 5th June

❌ 4. 10th January

Q.12 Which of the following is an example of a Biotic factor?

Question ID : **16794316462**

Ans ❌ 1. Soil

❌ 2. Sunlight

✔️ 3. Bacteria

❌ 4. Water

Q.13 In which year was the Environment Protection Act of India enacted?

Question ID : **16794316476**

Ans ✔️ 1. 1986

❌ 2. 2000

❌ 3. 1974

❌ 4. 1992

Q.14 Who has coined the term Ecology?

Question ID : **16794316463**

Ans
- ✔ 1. Haeckel
- ✘ 2. Darwin
- ✘ 3. Huxley
- ✘ 4. Linnaeus

Q.15 Infection with H5N1 leads to which one of the following diseases?

Question ID : **16794316481**

Ans
- ✘ 1. HIV
- ✘ 2. Swine flu
- ✔ 3. Bird flu
- ✘ 4. Fowl cholera

Q.16 Which of the following global conventions was formed to control Mercury poisoning in the world?

Question ID : **16794316477**

Ans
- ✘ 1. Basel convention
- ✘ 2. Montreal protocol
- ✔ 3. Minamata convention
- ✘ 4. Kyoto protocol

Q.17 Mycobacterium bovis infection in cattle leads to which of the following diseases in humans?

Question ID : **16794316480**

Ans
- ✘ 1. Anthrax
- ✘ 2. Cow pox
- ✔ 3. Tuberculosis
- ✘ 4. Leprosy

Q.18 Which of the following is a primary producer in a food chain?

Question ID : **16794316468**

Ans
- ✔ 1. Green plants
- ✘ 2. Eagle
- ✘ 3. Snake
- ✘ 4. Frog

Q.19 Which of the following plants can survive in extremely saline conditions?

Question ID : **16794316467**

Ans
- ✘ 1. Epiphytes
- ✔ 2. Halophytes
- ✘ 3. Xerophytes
- ✘ 4. Hydrophytes

Q.20 Which of the following types of radiation do Greenhouse gases emit?

Question ID : **16794316475**

Ans
- ✘ 1. Ultraviolet (UV)
- ✘ 2. Visible
- ✔ 3. Infrared (IR)
- ✘ 4. Gamma

Q.1 Bauxite ore is concentrated by which of the following methods?

Question ID : **16794316494**

Ans ✗ 1. Froth flotation

✗ 2. Electromagnetic separation

✗ 3. Hydraulic washing

✔ 4. Leaching

Q.2 The values of a, b, c, d, e, f to balance the following equation are $aK_2Cr_2O_7 + bKCl + cH_2SO_4 \rightarrow dCrO_2Cl_2 + eKHSO_4 + fH_2O$:

Question ID : **16794316492**

Ans ✗ 1. $a = 4, b = 2, c = 6, d = 6, e = 2, f = 3$

✗ 2. $a = 2, b = 4, c = 6, d = 2, e = 6, f = 3$

✗ 3. $a = 6, b = 4, c = 2, d = 6, e = 3, f = 2$

✔ 4. $a = 1, b = 4, c = 6, d = 2, e = 6, f = 3$

Q.3 What is the total number of chain isomers possible for n-Hexane?

Question ID : **16794316498**

Ans ✗ 1. 9

✔ 2. 5

✗ 3. 4

✗ 4. 6

Q.4 The correct increasing order of pH of isomolar solutions of $K_2O(pH_1), K_2S(pH_2), K_2Se(pH_3)$, and $K_2Te(pH_4)$ is:

Question ID : **16794316491**

Ans ✗ 1. $pH_1 > pH_2 > pH_3 > pH_4$

✗ 2. $pH_1 = pH_2 > pH_3 > pH_4$

✗ 3. $pH_3 < pH_1 < pH_2 < pH_4$

✔ 4. $pH_4 < pH_3 < pH_2 < pH_1$

Q.5 The correct expression for ionisation enthalpy of hydrogen atom in terms of Rydberg's constant (RH) is:

Question ID : **16794316487**

Ans ✗ 1. $\frac{3}{4}hCR_H$

✔ 2. hCR_H

✗ 3. $R_H.C$

✗ 4. $2hCR_H$

Q.6 'x' moles of ozone are required to oxidise 1 mole of lead sulphide. 'y' moles of O_2 are evolved in this reaction. The mass ratio of x and y is:

Question ID : **16794316493**

Ans ✗ 1. $4:3$

✗ 2. $2:3$

✔ 3. $3:2$

✗ 4. $1:1$

Q.7 Iron objects are protected from corrosion by connecting them to small pieces of Magnesium, where:

Question ID : **16794316496**

Ans ✗ 1. Iron is the sacrificial anode

✗ 2. Magnesium is the sacrificial cathode

✔ 3. Magnesium is the sacrificial anode

✗ 4. Iron is the sacrificial cathode

Q.8 Metalloids among P-block are NOT present in which of the following groups?

Ans ✗ 1. 16th group

✗ 2. 13th and 14th groups

✗ 3. 15th group

✔ 4. 18th group

Q.9 Four gases A, B, C, D have Henry's law constants 3, 4, 5, 6 respectively. Maximum solubility of the gas in the liquid is found in:

Ans ✗ 1. It is the same for all

✗ 2. B

✔ 3. A

✗ 4. D

Q.10 Rust is a mixture of:

Ans ✗ 1. Fe_3O_4 and $Fe(OH)_2$

✗ 2. FeO and $Fe(OH)_2$

✗ 3. FeO and $Fe(OH)_3$

✔ 4. Fe_2O_3 and $Fe(OH)_3$

Q.11 The fossil fuel that is used to manufacture carbon black is:

Ans ✗ 1. Synthesis gas

✗ 2. Producer gas

✗ 3. Coal gas

✔ 4. Natural gas

Q.12 The Brownian movement is due to:

Ans ✗ 1.
equal bombardment of large particles of dispersion medium by colloidal particles.

✗ 2.
equal bombardment of colloidal particles by the molecules of dispersion medium.

✗ 3.
bombardment of small size particles of dispersion medium by colloidal particles.

✔ 4.
unequal bombardment of colloidal particles by the molecules of the dispersion medium size.

Q.13 Which of the following is an Electrophilic addition reaction?

Ans ✔ 1. $CH_3CH = CH_2 + HBr \rightarrow CH_3CH(Br)CH_3$

✗ 2.

$$CH_3CH = CH_2 + HBr \xrightarrow{Peroxide} CH_3CH_2Br$$

✗ 3. $C_6H_6 + Cl_2 \xrightarrow[AlCl_3]{Anhydraes} C_6H_5Cl$

✗ 4. $C_6H_6 + Cl_2 \xrightarrow[AlCl_3]{Anhydraes} C_6H_5Cl + HCl$

Q.14 In terms of ionisation enthalpy, H resembles which of the group's elements more?

Question ID : **16794316489**

Ans
✔ 1. 17th group

✗ 2. 1st group

✗ 3. Both 1st and 17th group

✗ 4. Neither 1st group nor 17th group

Q.15 How many series of acidic salts can be formed by orthophosphoric acid?

Question ID : **16794316490**

Ans
✗ 1. 4

✗ 2. 3

✗ 3. 1

✔ 4. 2

Q.16 The composition of power alcohol is:

Question ID : **16794316500**

Ans
✗ 1. 50% petrol and 50% ethanol

✔ 2. 80% petrol and 20% ethanol

✗ 3. 95% petrol and 5% ethanol

✗ 4. 20% petrol and 80% ethanol

Q.17 On heating, crystalline magnesium sulfate loses 5% to 24% of its mass. The mass of water (in grams) present in the salt is:

Question ID : **16794316484**

Ans
✗ 1. 180

✗ 2. 7

✔ 3. 126

✗ 4. 48.76

Q.18 Which of the following statements regarding nuclides is INCORRECT?

Question ID : **16794316485**

Ans
✗ 1.
Isotopes show similar chemical properties but different physical properties

✗ 2.
Isotopes show different physical and chemical properties

✗ 3.
Isobars show similar physical properties but different chemical properties

✔ 4.
Isotopes show similar chemical as well as physical properties

---

Q.19 Identify the correct order of size of the species:

Question ID : **16794316488**

Ans
✗ 1. $Br^- > Se^{-2} > Kr > Rb^+ > Sr^{+2}$

Q.20 Nitrites on hydrolysis gives a compound 'X' which on reaction with H^+ or $\bar{O}H$ gives Y. When Y is diluted to 5-10%, it is known as a:

Question ID : **16794316501**

Ans ✗ 1. Wash

✗ 2. Azo dye

✗ 3. Rectified spirit

✓ 4. Vinegar

Section : **Subject Related**

Q.1 Which of the following is an important and major ingredient present in cement?

Question ID : **16794316505**

Ans ✓ 1. Tricalcium silicate

✗ 2. Gypsum

✗ 3. Tricalcium aluminate

✗ 4. Dicalcium silicate

Q.2 A body projected vertically upwards travels the same distance in the 5th and 6th seconds of its motion. Find the maximum height travelled by the body. $\left(g = 10m/s^2\right)$

Question ID : **16794316518**

Ans ✗ 1. 50 m

✗ 2. 250 m

✓ 3. 125 m

✗ 4. 100 m

Q.3 Radius of curvature of a concave mirror is 40 cm. An `object of height 1 cm is placed at a distance of 30 cm from the mirror. Find the height of the image.

Question ID : **16794316512**

Ans ✗ 1. 3 cm

✓ 2. 2 cm

✗ 3. 1 cm

✗ 4. 1.5 cm

Q.4 The acceleration – time graph for a body starts from rest is as shown. Find the distance travelled by the body till the velocity of the body becomes zero first time.

Ans ✗ 1. 300 m

✗ 2. 200 m

✗ 3. 100 m
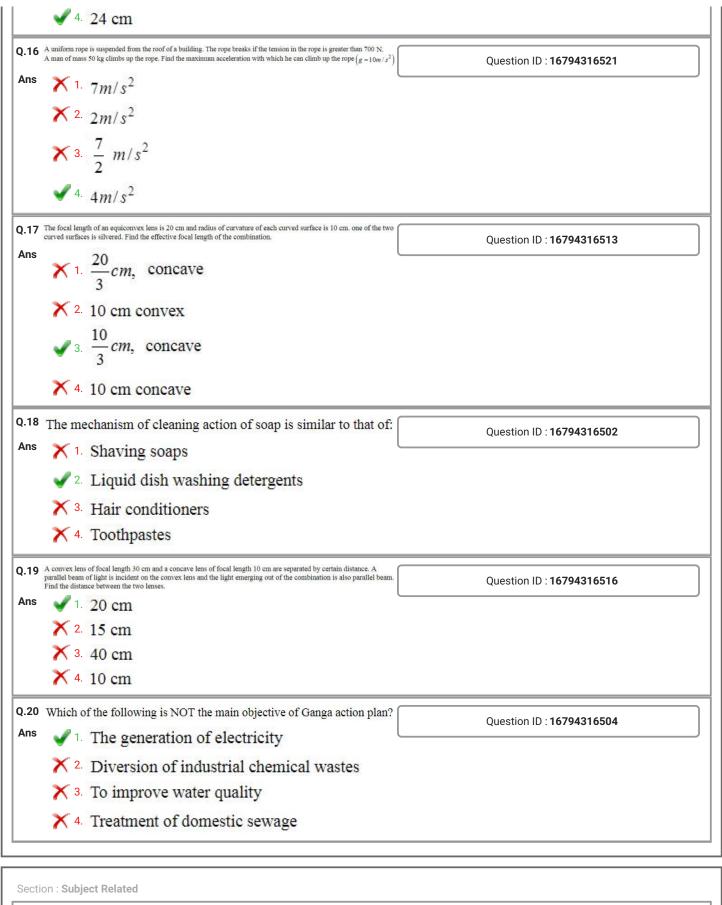
✓ 4. 350 m

Q.5 Two small angled prisms of refractive indices 1.6 and 1.5 are arranged such that light ray passes through the combination without deviation. The angle of prism for the prism of refractive index 1.5 is 4°. Find the angle of prism of the other.

Question ID : **16794316515**

Ans ✗ 1. 10 degrees

✗ 2. 2 degrees

✓ 3. $\frac{10}{3}$ degrees

✗ 4. $\frac{20}{3}$ degrees

Q.6 Rayon is a/an:

Question ID : **16794316506**

Ans

✓ 1. semi-synthetic polymer

✗ 2. synthetic polymer

✗ 3. natural polymer

✗ 4. elastomer

Q.7 A square loop of side *l* is carrying current i. as shown. Find the magnetic field induction at the centre of the loop.

Question ID : **16794316509**

Ans

✗ 1. $\frac{\mu_0 i}{2\pi l}$

✓ 2. $8\sqrt{2}\,\frac{\mu_0 i}{4\pi l}$

✗ 3. $\sqrt{2}\,\frac{\mu_0 i}{\pi l}$

✗ 4. Zero

Q.8 Nowadays Dichlorine (Cl_2) is substituted in the bleaching of paper with:

Question ID : **16794316503**

Ans

✓ 1. Hydrogen peroxide

✗ 2. Ozone

✗ 3. Bleaching powder

✗ 4. Sulfur dioxide

Q.9 A rod of length *l* is rotated about an axis perpendicular to its length and passing through the end with an angular velocity ω. A magnetic field of induction B is acting perpendicular to the plane of rotation. Find the e.m.f induced across the rod.

Question ID : **16794316511**

Ans

✗ 1. $B\omega l$

✗ 2. $\frac{B\omega^2 l}{2}$

✓ 3. $\frac{B\omega l}{2}$

✗ 4. $B\omega l^2$

Q.10 Two bulbs A, of (100w, 100v), and B of (60 w, 100v) are connected in series and across the series combination 200v is applied. Which bulb will be fused?

Question ID : **16794316508**

Ans

✗ 1. Bulb A

✗ 2. Both

✗ 3. None

✓ 4. Bulb B

Q.11 A body starts from rest and moved with uniform acceleration. The distance travelled in the first 2 seconds and in the next 2 seconds are s_1 and s_2. Find $\frac{s_1}{s_2}$

Ans

✗ 1. $\dfrac{2}{3}$

✓ 2. $\dfrac{1}{3}$

✗ 3. $\dfrac{1}{4}$

✗ 4. $\dfrac{1}{2}$

Q.12 A uniform wire of resistance 9Ω is bent in the form of an equilateral triangle. Find the effective resistance across a side of the triangle.

Ans

✗ 1. $\dfrac{1}{3}\Omega$

✗ 2. 27Ω

✓ 3. 2Ω

✗ 4. 3Ω

Q.13 A balloon is filled with air. The mass of the air in the balloon is 10 gr. A small hole is made to the balloon and released. The balloon moves up with an average speed of 5 cm/s and shrinks completely in 5 seconds. Find the average form acting on the balloon.

Ans

✓ 1. 10 dynes

✗ 2. 5 dynes

✗ 3. 15 dynes

✗ 4. 20 dynes

Q.14 A wire of length L is bent in the form a circular loop. And current is passed through the loop. The magnetic field induction at the centre of the loop is B. Find the current passing through the loop.

Ans

✗ 1. $\dfrac{B\pi L}{\mu_0}$

✓ 2. $\dfrac{BL}{\mu_0\pi}$

✗ 3. $\dfrac{B\pi}{L\mu_0}$

✗ 4. $\dfrac{BL}{\pi}$

Q.15 A fish is at a depth of 12 cm from the surface of a lake. And a bird is at a height of 15 cm above the surface of the lake. The fish and the bird are on the same vertical line. The refractive index of water in the lake is $\dfrac{4}{3}$. Find the apparent distance of fish as observed by the bird.

Ans

✗ 1. 21 cm

✗ 2. 27 cm

✗ 3. 31 cm

✅ 4. 24 cm

Q.16 A uniform rope is suspended from the roof of a building. The rope breaks if the tension in the rope is greater than 700 N. A man of mass 50 kg climbs up the rope. Find the maximum acceleration with which he can climb up the rope $\left(g = 10m/s^2\right)$

Question ID : **16794316521**

Ans ❌ 1. $7m/s^2$

❌ 2. $2m/s^2$

❌ 3. $\dfrac{7}{2} \ m/s^2$

✅ 4. $4m/s^2$

Q.17 The focal length of an equiconvex lens is 20 cm and radius of curvature of each curved surface is 10 cm. one of the two curved surfaces is silvered. Find the effective focal length of the combination.

Question ID : **16794316513**

Ans ❌ 1. $\dfrac{20}{3}cm,$ concave

❌ 2. 10 cm convex

✅ 3. $\dfrac{10}{3}cm,$ concave

❌ 4. 10 cm concave

Q.18 The mechanism of cleaning action of soap is similar to that of:

Question ID : **16794316502**

Ans ❌ 1. Shaving soaps

✅ 2. Liquid dish washing detergents

❌ 3. Hair conditioners

❌ 4. Toothpastes

Q.19 A convex lens of focal length 30 cm and a concave lens of focal length 10 cm are separated by certain distance. A parallel beam of light is incident on the convex lens and the light emerging out of the combination is also parallel beam. Find the distance between the two lenses.

Question ID : **16794316516**

Ans ✅ 1. 20 cm

❌ 2. 15 cm

❌ 3. 40 cm

❌ 4. 10 cm

Q.20 Which of the following is NOT the main objective of Ganga action plan?

Question ID : **16794316504**

Ans ✅ 1. The generation of electricity

❌ 2. Diversion of industrial chemical wastes

❌ 3. To improve water quality

❌ 4. Treatment of domestic sewage

Section : **Subject Related**

Q.1 Three point masses each of mass m are placed at the three corners of an equilateral triangle of side x. Find the resultant force acting on any one particle at the corner.

Question ID : **16794316531**

Ans ❌ 1. Zero

❌ 2. $\dfrac{3Gm^2}{x^2}$

❌ 3. $\dfrac{Gm^2}{x^2}$

✅ 4. $\dfrac{\sqrt{3}Gm^2}{x^2}$

Q.2 Weight of an object in air is 10 gr. Weight of this object is when it is completely immersed in water is 8.5 gr. Find the volume of the object .Density of water is $1 gr/cm^3$:

Ans

✅ 1. $1.5\ \text{cm}^3$

❌ 2. $3\ \text{cm}^3$

❌ 3. $4.5\ \text{cm}^3$

❌ 4. $0.75\ \text{cm}^3$

Q.3 Mass of the earth is M and its radius is R. An object of mass m is placed on the surface of earth. Find the work done in lifting the object through a height $\dfrac{R}{2}$ above the surface of earth.

Ans

❌ 1. $\dfrac{GMm}{2R}$

✅ 2. $\dfrac{GMm}{3R}$

❌ 3. $\dfrac{2\,GMm}{3\,R}$

❌ 4. $\dfrac{GMm}{4R}$

Q.4 A uniform chain of mass m and length l is placed on a smooth horizontal table such that $\dfrac{1}{4}$ th of its length is hanging from the edge of the table .The chain slips down. Find the kinetic energy of the chain when half of its length is hanging from the edge of the table.

Ans

❌ 1. $\dfrac{2}{32}\,mgl$

❌ 2. $\dfrac{mgl}{4}$

❌ 3. $\dfrac{2}{15}\,mgl$

✅ 4. $\dfrac{3}{32}\,mgl$

Q.5 A man standing in between two parallel cliffs produces a sound and first echo is heard after 2 seconds and second echo is heard after 3 second. If the speed of sound in air 340 m/s. Find the distance between two cliffs.

Ans

❌ 1. 425 m

❌ 2. 170 m

✅ 3. 850 m

❌ 4. 340 m

Q.6 A spring of spring constant k is suspended from the roof and a block of mass m is suspended at the other end of the spring. The block is suddenly released. Find the maximum elongation produced in the spring.

Ans

✔ 1. $\dfrac{2mg}{k}$

✘ 2. $\dfrac{mg}{2k}$

✘ 3. $\dfrac{mg}{k}$

✘ 4. $\dfrac{mg}{4k}$

Q.7 Two liquids of densities d_1 and d_2 are mixed in equal masses. Find the resultant density of the mixture.

Ans

✘ 1. $\dfrac{d_1 d_2}{d_1 + d_2}$

✘ 2. $\sqrt{d_1 d_2}$

✘ 3. $\dfrac{d_1 + d_2}{2}$

✔ 4. $\dfrac{2 d_1 d_2}{d_1 + d_2}$

Q.8 Mass of uniform circular ring is M and its radius is R. Find the maximum intensity of gravitation field on the axis of the ring

Ans

✔ 1. $\dfrac{2}{3\sqrt{3}} \dfrac{GM}{R^2}$

✘ 2. $\dfrac{GM}{R^2}$

✘ 3. $\dfrac{2GM}{R^2}$

✘ 4. $\dfrac{3}{2\sqrt{2}} \dfrac{GM}{R^2}$

Q.9 At what height above the surface of earth weight of an object reduces by 1%. Radius of earth is 6400 km.

Ans ✘ 1. 3.2 km

✘ 2. 64 km

✘ 3. 6.4 km

✔ 4. 32 km

Q.10 A solid sphere of radius b is having a concentric cavity of radius a. The sphere floats on the surface of water such that half of its volume sinks in water. Find the relative density of material of the sphere.

Ans

✘ 1. $\dfrac{b^3}{a^3}$

✘ 2. $\dfrac{b^3}{b^3 - a^3}$

✔ 3. $\dfrac{b^3}{2\left(b^3 - a^3\right)}$

✗ 4. $\dfrac{2b^3}{b^3 - a^3}$

Q.11 According to Herbert Spencer education should aim at complete development. Which principle of curriculum development aligns with this ideology?

Ans ✗ 1. Principle of flexibility

✗ 2. Principle of future orientation

✗ 3. Principle of correlation

✓ 4. Principle of including all activities

Q.12 Plant embryology can be studied under which branch of biology?

Ans ✗ 1. Zoology

✗ 2. Microbiology

✓ 3. Botany

✗ 4. Virology

Q.13 One of the important aims of teaching mathematics to children is to comprehend mathematical language. Which of the following is not a part of mathematical language?

Ans ✓ 1. < {} + =

✗ 2. ! # * &

✗ 3. % ? [] !

✗ 4. ! # ; &

Q.14 Complete the statement with one of the following.

Including art in education allows children to explicitly develop:

Ans ✗ 1. Reading skills

✓ 2. Own free expression

✗ 3. Writing skills

✗ 4. Teaching skills

Q.15 An effective inclusive environment is beneficial to the larger group without disabilities as it develops many attributes. Which of these is not the benefit of inclusion to the non-disabled group?

Ans ✗ 1. Acceptance

✗ 2. Compassion

✓ 3. Diversity

✗ 4. Tolerance

Q.16 Differentiated assessments in schools are an example of what factors that promotes inclusion?

Ans ✓ 1. Educational modification

✗ 2. Physical adaptation

✗ 3. Expenses

✗ 4. Accessibility

Q.17 Choose the best option from the following.

Text books contain information about human rights, values and social norms. Thus we can call text books as:

Question ID : **16794316538**

Ans
- ✗ 1. Repository of content
- ✗ 2. Knowledge body
- ✗ 3. Source of information
- ✓ 4. Tools for social change

Q.18 Which of the following emphasizes the role of rewards and punishment in learning?

Question ID : **16794316532**

Ans
- ✗ 1. Law of exercise
- ✗ 2. Law of readiness
- ✓ 3. Law of effect
- ✗ 4. Law of practice

Q.19 What is Learning in one context and applying it to another called technically?

Question ID : **16794316534**

Ans
- ✗ 1. Advanced learning
- ✗ 2. Basic learning
- ✓ 3. Transfer of learning
- ✗ 4. Applying learning

Q.20 Ajanta paintings are categorized as:

Question ID : **16794316533**

Ans
- ✗ 1. Natural heritage
- ✗ 2. Intangible cultural heritage
- ✓ 3. Tangible cultural heritage
- ✗ 4. Environmental heritage

Participant ID:	
Participant Name:	
Test Center Name:	iON Digital Zone iDZ 1 Sector 62
Test Date:	29/09/2018
Test Time:	8:30 AM - 10:30 AM
Subject:	TGT NATURAL SCIENCE MALE

Section : **Mental Ability**

Q.1 A house owner built a fence around his square plot. He used 37 fence poles on each side of the square. How many poles did he need altogether?

Question ID : **16794316758**

Ans
- ✗ 1. 142
- ✗ 2. 148
- ✗ 3. 140
- ✓ 4. 144

Q.2 Find the odd pair of numbers.

Question ID : **16794316761**

Ans
- ✓ 1. 10-20
- ✗ 2. 12-25
- ✗ 3. 15-31
- ✗ 4. 9-19

Q.3 Study the following figure carefully and answer the given question.

Question ID : **16794316755**

Which region denotes Doctors who are singers but not Americans?

Ans
- ✗ 1. 1
- ✗ 2. 2
- ✗ 3. 3
- ✓ 4. 4

Q.4 The following pie chart shows information about the books published by a publication company "XYZ". The total number of books published by the company are 12,462 in 2016-17 including color black & white publications.

Question ID : **16794316749**

How many books of High school level education are published by XYZ in 2016-17 (approximately)

Ans
- ✗ 1. 2243
- ✗ 2. 1869
- ✗ 3. 1246
- ✓ 4. 3115

Q.5 A man is 25 years older than his son. In three years, his age will be twice the age of his son. The present age of the son is:

Question ID : **16794316759**

Ans
- ✗ 1. 20 years
- ✗ 2. 18 years
- ✗ 3. 27 years
- ✓ 4. 22 years

Q.6 If L means +, M means −, N means ×, P means ÷, then what is the value of $9N6L12P3M2 = ?$

Question ID : **16794316757**

Ans
- ✔ 1. 56
- ✘ 2. 60
- ✘ 3. 55
- ✘ 4. 77

Q.7 Find the odd pair of words.

Question ID : **16794316760**

Ans
- ✘ 1. Flaw : Defect
- ✘ 2. Vacant : Empty
- ✔ 3. Substitute : Allot
- ✘ 4. House : Home

Q.8 what will be the next term in the series?

IV, FR, CN, ZJ, ?

Question ID : **16794316763**

Ans
- ✘ 1. BK
- ✔ 2. WF
- ✘ 3. ML
- ✘ 4. UP

Q.9 Baht is related to Thailand in the same way as Yen is related to _____.

Question ID : **16794316744**

Ans
- ✔ 1. Japan
- ✘ 2. India
- ✘ 3. Burma
- ✘ 4. Iran

Q.10 What will be the next figure in the series.

Question ID : **16794316747**

Ans
- ✘ 1.
- ✘ 2.
- ✔ 3.
- ✘ 4.

Q.11 Spot the embedded figure as given below from the options.

Question ID : **16794316750**

Ans

✔ 1.

✘ 2.

✘ 3.

✘ 4.

Q.12 The following are the conditions for selecting list of a suitable candidates to be called for interview after the written test for the recruitment is conducted/ organized for management-level persons for a multi-national company. For providing accounting services and sales the candidate must
(a) be holding a graduation in basic science with 65% or above or B.E degree with 55% and above marks
(b) have passed the written test with 70% or above marks
(c) the age must be in the group 25 to 30 years as on 1/4/18
(d) have experience in an accounting firms for three years and diploma in accounting with 60% or above marks
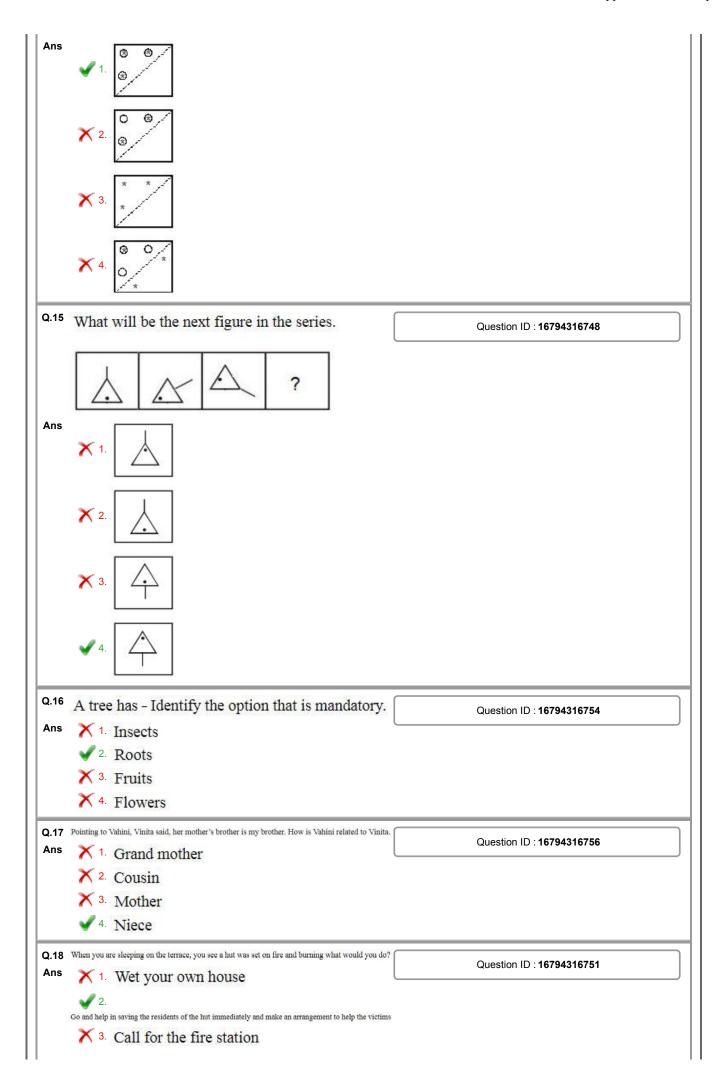(e) be presently drawing CTC of 6 Lakhs per annum and above
In case the applicant who satisfies all other terms above except
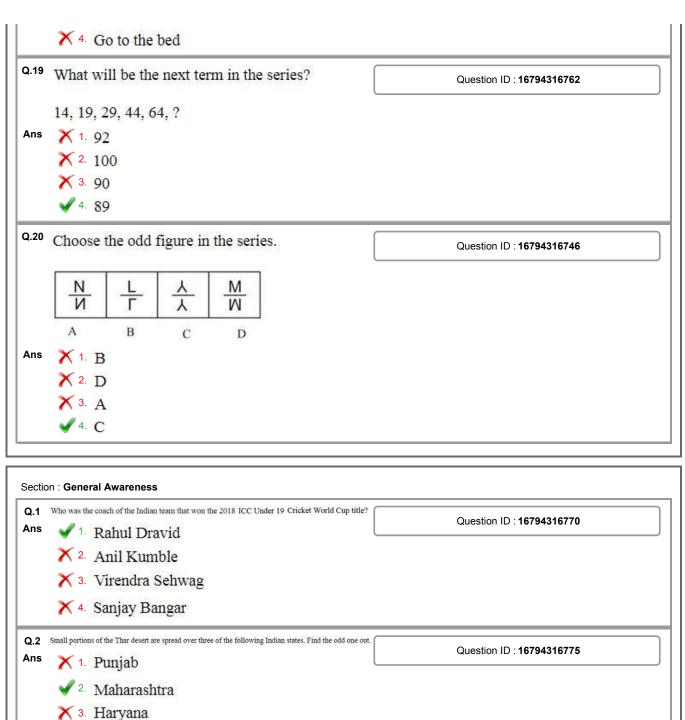1) at (a) above, then be referred as Junior Accountant
2) at (d) & (e) above then be referred as
Trainee-Accountant
Satisfying all the above with experience of 5 years then be referred as senior-Accountant
Satisfying all the above criteria (a-e) with CA/ ICWA/ MBA (Finance) then be refereed as manager (Accounts)
Read all the above information and answer the following question

Praveen has done his Masters in physics. He has no experience in accounting neither diploma. He is ready to be on training for accounting after joining. For which position he may be referred

Question ID : **16794316752**

Ans

✘ 1. Senior accountant

✔ 2. Not eligible for any position

✘ 3. Trainee-Accountant

✘ 4. Manager (Accounts)

Q.13 Select the option that is related to the third term in the same way as the second term is related to the first term.

Question ID : **16794316745**

Ans

✘ 1.

✘ 2.

✘ 3.

✔ 4.

Q.14 How the pattern would appear when the transparent sheet is folded at the dotted line?

Question ID : **16794316753**

Ans

Q.15 What will be the next figure in the series.

Question ID : **16794316748**

Ans

Q.16 A tree has – Identify the option that is mandatory.

Question ID : **16794316754**

Ans
- ✗ 1. Insects
- ✓ 2. Roots
- ✗ 3. Fruits
- ✗ 4. Flowers

Q.17 Pointing to Vahini, Vinita said, her mother's brother is my brother. How is Vahini related to Vinita.

Question ID : **16794316756**

Ans
- ✗ 1. Grand mother
- ✗ 2. Cousin
- ✗ 3. Mother
- ✓ 4. Niece

Q.18 When you are sleeping on the terrace, you see a hut was set on fire and burning what would you do?

Question ID : **16794316751**

Ans
- ✗ 1. Wet your own house
- ✓ 2.
  Go and help in saving the residents of the hut immediately and make an arrangement to help the victims
- ✗ 3. Call for the fire station

✗ 4. Go to the bed

Q.19 What will be the next term in the series?

Question ID : **16794316762**

14, 19, 29, 44, 64, ?

Ans ✗ 1. 92

✗ 2. 100

✗ 3. 90

✓ 4. 89

Q.20 Choose the odd figure in the series.

Question ID : **16794316746**

N/И	L/Г	人/人	M/W
A	B	C	D

Ans ✗ 1. B

✗ 2. D

✗ 3. A

✓ 4. C

Section : **General Awareness**

Q.1 Who was the coach of the Indian team that won the 2018 ICC Under 19 Cricket World Cup title?

Question ID : **16794316770**

Ans ✓ 1. Rahul Dravid

✗ 2. Anil Kumble

✗ 3. Virendra Sehwag

✗ 4. Sanjay Bangar

Q.2 Small portions of the Thar desert are spread over three of the following Indian states. Find the odd one out.

Question ID : **16794316775**

Ans ✗ 1. Punjab

✓ 2. Maharashtra

✗ 3. Haryana

✗ 4. Gujarat

Q.3 _____ is a measure of soil conservation.

Question ID : **16794316774**

Ans ✗ 1. Subsistence farming

✗ 2. Slash and burn agriculture

✗ 3. Salinisation

✓ 4. Planting windbreaks

Q.4 Wild Buffalo is the state animal of _____.

Question ID : **16794316773**

Ans ✗ 1. Telangana

✗ 2. Sikkim

✓ 3. Chattisgarh

✗ 4. Uttarakhand

Q.5 Which of the following is an example of physical change?

Question ID : **16794316779**

Ans
✗ 1. Digestion of food

✗ 2. Formation of gobar gas

✗ 3. Ripening of fruit

✓ 4. Making of ice cream

Q.6 In which Article of the Constitution, the matters relating to 'Parliamentary Privileges' are laid down?

Question ID : **16794316767**

Ans
✗ 1. Article 331

✓ 2. Article 105

✗ 3. Article 108

✗ 4. Article 81

Q.7 Which of the following journals was Dadabhai Naoroji associated with?

Question ID : **16794316764**

Ans
✗ 1. Prabuddha Bharata

✓ 2. Rast Goftar

✗ 3. Free Hindustan

✗ 4. Tahzib-ul-Akhlaq

Q.8 Which Article of the Constitution of India empowers the Election Commission of India to conduct elections?

Question ID : **16794316768**

Ans
✓ 1. Article 324

✗ 2. Article 322

✗ 3. Article 321

✗ 4. Article 323

Q.9 The headquarters of Asian Development Bank is in _____.

Question ID : **16794316776**

Ans
✗ 1. Hongkong

✗ 2. South Korea

✗ 3. Indonesia

✓ 4. Philippines

Q.10 A Money Bill passed by the Lok Sabha and transmitted to the Rajya Sabha is required to be returned to the Lok Sabha with in a period of _____.

Question ID : **16794316769**

Ans
✗ 1. 45 days

✗ 2. 30 days

✗ 3. 21 days

✓ 4. 14 days

Q.11 India's national calendar based on the Saka Era was adopted for three of the following purposes. Find the odd one out.

Question ID : **16794316772**

Ans
✗ 1. Gazette of India

✗ 2. News broadcast by All India radio

✓ 3. For adoption by educational institutions

✗ 4.

Calendars issued by the Government of India

Q.12 National Sports Day is celebrated on _____ every year.

Question ID : **16794316771**

Ans
✗ 1. 17th August

✗ 2. 31st August

✗ 3. 11th August

✓ 4. 29th August

Q.13 _____ inaugurated the world's largest mobile manufacturing unit in Noida in July 2018.

Question ID : **16794316777**

Ans

✗ 1. Vivo

✗ 2. Honor

✓ 3. Samsung

✗ 4. Lenovo

Q.14 Arrange the multiples and sub-multiples of metre (unit of length) in the descending order of their unit value.

D. Micrometre
M. Decimetre
P. Decametre
F. Millimetre
T. Hectometre

Question ID : **16794316778**

Ans

✗ 1. F→D→M→P→T

✓ 2. T→ P→M→F→D

✗ 3. D→F→T→P→M

✗ 4. F→T→M→P→D

Q.15 Who invented the marine chronometer for measuring longitude while sailing on the oceans?

Question ID : **16794316781**

Ans

✗ 1. Benjamin Franklin

✓ 2. John Harrison

✗ 3. Archimedes

✗ 4. Blaise Pascal

Q.16 During India's freedom struggle Hindustan Republican Association was responsible for _____.

Question ID : **16794316765**

Ans

✗ 1. Delhi conspiracy case

✓ 2. Kakori conspiracy

✗ 3. Ghadar conspiracy

✗ 4. Alipore bomb case

Q.17 Three of the following statements in regard to 'prorogation' of Lok Sabha are correct. Find the incorrect statement. (House : Lok Sabha)

Question ID : **16794316766**

Ans

✗ 1.
It means termination of a session of the Lok Sabha

✗ 2. Only the President can issue such order

✓ 3.
It cannot take place while the House is sitting

✗ 4.
Usually, it follows the adjournment of the sitting of the House *sine die*

Q.18 Three of the following are the functions of the Bureau of Indian Standards (BIS). Find the odd one out.

Question ID : **16794316783**

Ans

✗ 1. Laboratory Services for testing

✓ 2. Marketing of consumer products

✗ 3. Standards formulation

✗ 4. Product Certification

Q.19 The "U/A" certificate of the Central Board of Film Certification (CBFC) means:

Question ID : **16794316782**

Ans

✗ 1. Restricted to adults

✗ 2. Unrestricted Public Exhibition

✓ 3.
Unrestricted Public Exhibition - but with a word of caution that discretion required for children below 12 years

✗ 4. Restricted to any special class of persons

Q.20 Thomas Alva Edison, who invented electric light bulb, belonged to _____.

Question ID : **16794316780**

Ans

✗ 1. Italy

✓ 2. U.S.A

✗ 3. Germany

✗ 4. France

Section : **Arithmetic Ability**

Q.1 A and B together can complete a work in 24 hours, B and C together in 30 hours and C and A together in 40 hours. In how many hours C alone can do 60% of that work?

Question ID : **16794316799**

Ans

✓ 1. 72

✗ 2. 80

✗ 3. 60

✗ 4. 65

Q.2 The value of $\dfrac{85.2\times85.2\times85.2-75.2\times75.2\times75.2}{8.52\times8.52+7.52\times7.52+8.52\times7.52}$ is equal to:

Question ID : **16794316784**

Ans

✗ 1. 100

✓ 2. 1000

✗ 3. 10

✗ 4. 10000

Q.3 A purchases an article for ₹ 400 and spends ₹ 110 on its repair. He marks the price in such a way that after diving a discount of 15%, he gains 25%. What is the marked price of the article?

Question ID : **16794316792**

Ans

✗ 1. ₹ 800

✗ 2. ₹ 850

✓ 3. ₹ 750

✗ 4. ₹ 825

Q.4 The value of $\dfrac{[3-48\div(-4\times3)]^2+[4-(3\sqrt{125}\times3)]}{4^2+(3\times\sqrt{121}-6)\div3}$ is equal to:

Question ID : **16794316785**

Ans

✗ 1. $\dfrac{36}{25}$

✗ 2. $\dfrac{23}{25}$

✗ 3. $\dfrac{3}{5}$

✓ 4. $\dfrac{38}{25}$

Q.5 The value of a machine depreciates at the rate of 10%, 12% and 15% at the end of first, year, second year and third year on its value of the beginning of that year. If the present value of the machine is ₹ 5800, what will be its value at the end of 3 years, nearest to whole rupee?

Question ID : **16794316794**

Ans

✗ 1. ₹ 4135

2. ₹ 3905 ✓

3. ₹ 4025 ✗

4. ₹ 3654 ✗

Q.6 A person covers 40% of his journey at 12 km/h and remaining at 8 km/h. what is his average speed for complete journey correct to one decimal place in km/h?

Question ID : **16794316797**

Ans
1. 9.2 ✓

2. 9.8 ✗

3. 9.4 ✗

4. 10 ✗

Q.7 Two pipes A and B together can fill a tank in 6 hours. If pipe A can fill the tank 5 hours faster than tank B, in how many hours pipe B alone can fill the tank?

Question ID : **16794316800**

Ans
1. 12 ✗

2. 10 ✗

3. 18 ✗

4. 15 ✓

Q.8 The HCF of two numbers is 25 and their sum is 750. How many such pair of numbers are possible?

Question ID : **16794316786**

Ans
1. 5 ✗

2. 6 ✗

3. 4 ✓

4. 3 ✗

Q.9 The ratio of speed of a boat in still water and the speed of stream is 8 : 3. if can go 5.5 km downstream and 10 km upstream in 2 hours. What is speed of boat downstream in km/h?

Question ID : **16794316798**

Ans
1. 10.2 ✗

2. 8.8 ✗

3. 13.75 ✓

4. 12.25 ✗

Q.10 By selling an article for ₹ 2250, a person loses $\frac{1}{10}$ of it cost price. At what price he should sell it to gain 16%?

Question ID : **16794316791**

Ans
1. ₹ 2850 ✗

2. ₹ 3000 ✗

3. ₹ 2900 ✓

4. ₹ 2800 ✗

Q.11 In a class 40% are boys and rest are girls. If 60% of the girls and 40% boys passed in a fest, what percent of total students passed?

Question ID : **16794316790**

Ans
1. 50% ✗

2. 55% ✗

3. 54% ✗

4. 52% ✓

Q.12 A person spends $\frac{1}{4}$ of his money at 8% per annum, $\frac{2}{5}$ at 9% per annum and rest at 10% per annum as simple interest for 2 years. If his total interest is ₹ 13650 how much money he had with him?

Question ID : **16794316793**

Ans
1. ₹ 80000 ✗

2. ₹ 72000 ✗

3. ₹ 75000 ✓

4. ₹ 70000 ✗

Q.13 What is the sum of digits of the smallest five digit number which when divided by 15, 18, 24 and 14 leaves remainders respectively 5, 8, 14 and 4?

Question ID : **16794316787**

Ans
✗ 1. 10

✗ 2. 9

✗ 3. 11

✔ 4. 8

Q.14 A sold cone of base radius 5 cm and height 14 cm is melted and recast in to a wire of radius 1 mm. what is the length of the wire?

Question ID : **16794316796**

Ans
✗ 1. 150 m

✗ 2. 35 m

✗ 3. 275 m

✔ 4. 350 m

Q.15 If a : b = 3 : 5, b : c = 6 : 7, then 2a : 3b : 5c is equal to:

Question ID : **16794316788**

Ans
✔ 1. 36 : 90 : 175

✗ 2. 54 : 70 : 175

✗ 3. 36 : 90 : 125

✗ 4. 70 : 54 : 175

Q.16 What is the area of the minor segment of circle of radius 14 cm whose central angle is 60° correct to one decimal place? ($\pi = \frac{22}{7}$)

Question ID : **16794316795**

Ans
✗ 1. $17.4\ cm^2$

✔ 2. $17.8\ cm^2$

✗ 3. $102.7\ cm^2$

✗ 4. $17.2\ cm^2$

Q.17 Two vessels A and B contains spirit and water in the ratio 5 : 2 and 8 : 5. Their contents are mixed in the ratio 9 : 4. In 360 ml of this solution, how much water should be added so that mixture contains spirit and water in the ratio 5 : 3?

Question ID : **16794316789**

Ans
✗ 1. 68 ml

✗ 2. 64 ml

✗ 3. 60 ml

✔ 4. 66 ml

Comprehension:

The following table gives the number of students studying in a college from 6 States. Read the table and answer the following questions.

State	A	B	C	D	E	F
Boys	117	477	93	102	219	72
Girls	168	535	152	143	231	121

SubQuestion No : 18

Q.18 If the pie-chart is down representing total students state wise, what will be the central angle of the sector representing the state E to nearest whole degree?

Question ID : **16794316804**

Ans
✔ 1. 68°

✗ 2. 64°

✗ 3. 67°

✗ 4. 65°

Comprehension:

The following table gives the number of students studying in a college from 6 States. Read the table and answer the following questions.

State	A	B	C	D	E	F
Boys	117	477	93	102	219	72
Girls	168	535	152	143	231	121

SubQuestion No : 19

Q.19 What is the percentage of girls studying in the college to the total number of students correct to one decimal place?

Question ID : **16794316802**

Ans ✗ 1. 55.2%

✔ 2. 55.6%

✗ 3. 55.8%

✗ 4. 55.9%

Comprehension:

The following table gives the number of students studying in a college from 6 States. Read the table and answer the following questions.

State	A	B	C	D	E	F
Boys	117	477	93	102	219	72
Girls	168	535	152	143	231	121

SubQuestion No : 20

Q.20 From which state, the girls is highest with respect to total students from that state?

Question ID : **16794316803**

Ans ✗ 1. A

✗ 2. B

✗ 3. D

✔ 4. F

Section : **General English**

Q.1 Select the most appropriate option to fill in the blank.

Question ID : **16794316805**

The office excused her _____ coming to work.

Ans ✗ 1. with

✔ 2. from

✗ 3. in

✗ 4. to

Q.2 Select the synonym of the given word.

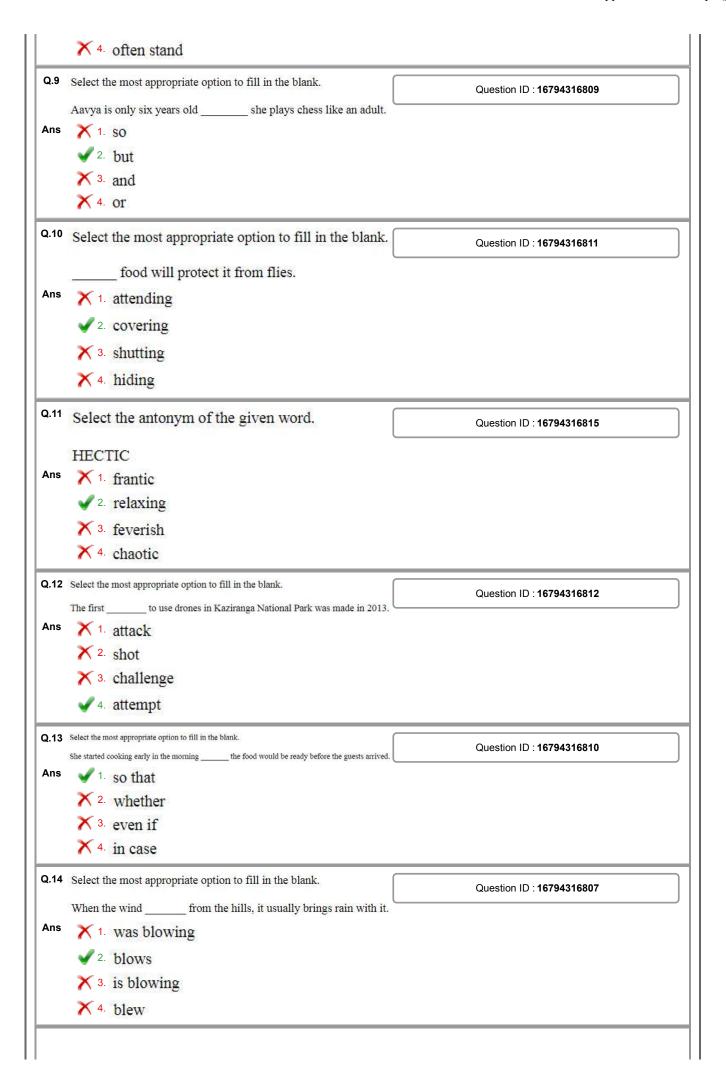Question ID : **16794316814**

EXERTION

Ans ✗ 1. acclaim

✗ 2. checkup

✔ 3. effort

✗ 4. deviation

Q.3 Arrange parts of the sentence in meaningful and grammatically correct order.

Question ID : **16794316818**

A. according to the latest count
B. Kaziranga National Park has 2413 rhinos
C. have fallen to poachers
D. and this year, so far, at least five

Ans ✗ 1. ACBD

✗ 2. ABCD

✗ 3. ADCB

✔ 4. ABDC

Q.4 Select the antonym of the given word.

Question ID : **16794316816**

BENIGN

Ans ✗ 1. harmless

✗ 2. caring

✔ 3. malignant

✗ 4. generous

Q.5 Select the most appropriate option to fill in the blank.

Question ID : **16794316806**

He was injured _____ the left arm _____ the accident.

Ans ✗ 1. at , in

✔ 2. in , in

✗ 3. in , at

✗ 4. at , at

Q.6 Select the most appropriate option to fill in the blank.

Question ID : **16794316808**

If she _____ so much last night, she wouldn't have been so sick.

Ans ✗ 1. isn't eating

✗ 2. hasn't eaten

✗ 3. doesn't eat

✔ 4. hadn't eaten

Q.7 Select the synonym of the given word.

Question ID : **16794316813**

HEARTILY

Ans ✗ 1. harshly

✗ 2. affectionately

✗ 3. callously

✔ 4. earnestly

Q.8 In the following sentence four words/phrases have been underlined. One of them is incorrect. Choose the incorrect word/phrase from the given options.

Question ID : **16794316819**

Traffic policemen <u>often stand</u> in shade <u>after a red light</u> <u>to stop and fine</u> the motorists or motorcyclists <u>which jump</u> the red light.

Ans ✗ 1. to stop and fine

✔ 2. which jump

✗ 3. after a red light

✗ 4. often stand

Q.9 Select the most appropriate option to fill in the blank.

Question ID : **16794316809**

Aavya is only six years old _____ she plays chess like an adult.

Ans

✗ 1. so

✔ 2. but

✗ 3. and

✗ 4. or

Q.10 Select the most appropriate option to fill in the blank.

Question ID : **16794316811**

_____ food will protect it from flies.

Ans

✗ 1. attending

✔ 2. covering

✗ 3. shutting

✗ 4. hiding

Q.11 Select the antonym of the given word.

Question ID : **16794316815**

HECTIC

Ans

✗ 1. frantic

✔ 2. relaxing

✗ 3. feverish

✗ 4. chaotic

Q.12 Select the most appropriate option to fill in the blank.

Question ID : **16794316812**

The first _____ to use drones in Kaziranga National Park was made in 2013.

Ans

✗ 1. attack

✗ 2. shot

✗ 3. challenge

✔ 4. attempt

Q.13 Select the most appropriate option to fill in the blank.

Question ID : **16794316810**

She started cooking early in the morning _____ the food would be ready before the guests arrived.

Ans

✔ 1. so that

✗ 2. whether

✗ 3. even if

✗ 4. in case

Q.14 Select the most appropriate option to fill in the blank.

Question ID : **16794316807**

When the wind _____ from the hills, it usually brings rain with it.

Ans

✗ 1. was blowing

✔ 2. blows

✗ 3. is blowing

✗ 4. blew

Q.15 Select the sentence structure that is grammatically correct and meaningful.

Question ID : **16794316817**

Ans   ✗ 1.

On my birthday my book gave a mother to me.

✗ 2.

A book gave my mother to me my birthday on.

✔ 3.

My mother gave me a book on my birthday.

✗ 4.

Birthday on my gave my mother me a book.

Comprehension:

Read the following passage and answer the questions given after it.

A floating restaurant, Ark Deck Bar, capsized near Bandra-Worli Sea Link (BWSL) on Friday afternoon. As many as 15 workers who were on-board the floatel were rescued by the police. The floatel was hosting its last event before monsoon.

"Around 1.30 pm after we learnt about the floatel capsizing off the BWSL, a team was sent. The ship owners informed us that because of gusty winds the floatel swung and hit a rock. Due to the impact on the boat's hull, it developed a hole through which water started seeping in. The crew was rescued and within a few hours the boat capsized," said a senior officer from the Mumbai Police, who spoke on the condition of anonymity.

The crew, which had been cleaning up after the boat's final sailing for the current season, had tried until 5.30 pm to mend the hole in the hull, but were unsuccessful, police said. With water seeping in the vessel dangerously, the crew decided to evacuate and were taken off the vessel by a patrolling Mumbai Police boat.

BMC disaster control room said that it received a call from the police at 7 pm regarding the capsizing and the rescue of 15 people. Two fire engines, an ambulance and a fire brigade watercraft were deployed to assist in the rescue operations, the BMC said.

Earlier, on Friday, Ark Deck Bar had tweeted: "Experience the colours of sunset, chilled beats & ocean waves make the perfect ending of our last evening. We will be back by the end of September, till then stay tuned."

Maharashtra government has been promoting floatels as a part of their main attraction for coastline tourism. Currently, three floatels are operational near Bandra-Worli Sea Link and two are proposed near the Gateway of India post-monsoon.

Secretary, Mumbai BJP, Vivekanand Gupta had tweeted twice in the last six months, alleging that the floatel's owners had been operating it without any requisite permission. Having tagged the BMC, the state government and the Indian Navy in his posts, Gupta claimed that the authorities turned a blind eye towards his claims.

"It was a fishing trawler illegally converted into party yacht Avior operated by Ocean Blue at Gateway of India. It later shifted to BWSL after it was renamed as Ark Deck Bar," Gupta claimed.

SubQuestion No : 16

Q.16 The main theme of the passage is that:

Ans ✗ 1.

a floatel capsized on its last day of operation before the monsoons.

✓ 2.

a floatel capsized near Bandra-Worli Sea Link and 15 onboard were rescued.

✗ 3.

a Police patrol boat rescued 15 member crew of the sinking floatel.

✗ 4.

an illegal floating restaurant sank in the sea.

Question ID : **16794316821**

Comprehension:

Read the following passage and answer the questions given after it.

A floating restaurant, Ark Deck Bar, capsized near Bandra-Worli Sea Link (BWSL) on Friday afternoon. As many as 15 workers who were on-board the floatel were rescued by the police. The floatel was hosting its last event before monsoon.

"Around 1.30 pm after we learnt about the floatel capsizing off the BWSL, a team was sent. The ship owners informed us that because of gusty winds the floatel swung and hit a rock. Due to the impact on the boat's hull, it developed a hole through which water started seeping in. The crew was rescued and within a few hours the boat capsized," said a senior officer from the Mumbai Police, who spoke on the condition of anonymity.

The crew, which had been cleaning up after the boat's final sailing for the current season, had tried until 5.30 pm to mend the hole in the hull, but were unsuccessful, police said. With water seeping in the vessel dangerously, the crew decided to evacuate and were taken off the vessel by a patrolling Mumbai Police boat.

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SubQuestion No : 17

Q.17 Which of the following happened first?

Question ID : **16794316822**

Ans   ✔ 1. The boat swung and hit a rock.

✗ 2. Water started seeping in.

✗ 3. A hole developed in the boat.

✗ 4. The crew tried to mend the hole.

Comprehension:

Read the following passage and answer the questions given after it.

A floating restaurant, Ark Deck Bar, capsized near Bandra-Worli Sea Link (BWSL) on Friday afternoon. As many as 15 workers who were on-board the floatel were rescued by the police. The floatel was hosting its last event before monsoon.

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SubQuestion No : 18

Q.18 What was the reason for the floatel to hit the rock?

Question ID : **16794316825**

Ans   ✗ 1. Overload of people on it

✔ 2. Gusty winds

✘ 3. Cloudburst

✘ 4. Calm winds

Comprehension:

Read the following passage and answer the questions given after it.

A floating restaurant, Ark Deck Bar, capsized near Bandra-Worli Sea Link (BWSL) on Friday afternoon. As many as 15 workers who were on-board the floatel were rescued by the police. The floatel was hosting its last event before monsoon.

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SubQuestion No : 19

Q.19 Which of the following statements is NOT true according to the passage?

Question ID : **16794316824**

Ans ✗ 1.

Before operating as the floatel, The Arch Deck Bar was a fishing trawler and a party yacht Avior.

✗ 2.

Maharashtra government has been promoting floatels as one of the main attractions for coastline tourism.

✗ 3.

BMC deployed two fire engines, an ambulance and a fire brigade watercraft to assist in the rescue operations.

✓ 4.

BMC disaster control room received a call about the capsizing of a boat at 5.30 p.m.

Comprehension:

Read the following passage and answer the questions given after it.

A floating restaurant, Ark Deck Bar, capsized near Bandra-Worli Sea Link (BWSL) on Friday afternoon. As many as 15 workers who were on-board the floatel were rescued by the police. The floatel was hosting its last event before monsoon.

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SubQuestion No : 20

Q.20 Match the words with their meanings.

a. anonymity	1. necessary
b. evacuate	2. obscurity
c. requisite	3. abandon

Ans ✔ 1. a-2, b-3, c-1

✘ 2. a-2, b-1, c-3

✘ 3. a-1, b-3, c-2

✘ 4. a-3, b-2, c-1

Section : **General Hindi**

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

समकालीन साहित्य को शुक्ल जी देखने- परखने के बाद ही स्वीकार करते थे। समकालीन काव्यधारा में श्रीधर पाठक द्वारा प्रवर्तित स्वच्छंदतावाद को हिन्दी का अपना बनाया हुआ मार्ग समझते थे। 'छायावाद' को वे रवीन्द्रनाथ टैगोर की कविताओं के अनुकरण पर चलनेवाली प्रवृत्ति और चित्रात्मक भाषा-शैली तथा लक्षणा का प्रगल्भ विकास मानते थे। छायावादी प्रबंध काव्यों के द्वारा उसकी 'भाव-भूमि' विस्तार का स्वागत करते थे। छायावादी कवियों में पंत उन्हें कदाचित् सर्वाधिक प्रिय थे। वे यूरोपीय साहित्य की पर्याप्त जानकारी रखते थे। अपने लेखन में उन्होंने समकालीन विदेशी साहित्य पर निहायत आत्मविश्वास परक एवं विश्वसनीय टिप्पणी की है।

SubQuestion No : 1

Q.1 गद्यांश में उल्लिखित स्वच्छंदतावाद के प्रवर्तक हैं:

Ans ✘ 1. सूर्यकान्त त्रिपाठी निराला

✘ 2. रवीन्द्रनाथ टैगोर

✘ 3. जयशंकर प्रसाद

✔ 4. श्रीधर पाठक

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 2

Q.2 गद्यांश के अनुसार शुक्ल जी किस साहित्य की पर्याप्त जानकारी रखते थे?

Question ID : **16794316830**

Ans ✗ 1. लैटिन साहित्य

✔ 2. यूरोपीय साहित्य

✗ 3. अमेरिकी साहित्य

✗ 4. अफ्रीकी साहित्य

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 3

Q.3 चित्रात्मक भाषा शैली का संबंध किससे है?

Question ID : **16794316831**

Ans ✗ 1. नयी कविता

✗ 2. प्रगतिवाद

✗ 3. प्रयोगवाद

✔ 4. छायावाद

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 4

Q.4 छायावादी कवियों में शुक्ल जी को कदाचित सर्वाधिक प्रिय थे:

Question ID : **16794316829**

Ans
✔ 1. सुमित्रानंदन पंत

✗ 2. सूर्यकान्त त्रिपाठी निराला

✗ 3. जयशंकर प्रसाद

✗ 4. महादेवी वर्मा

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 5

Q.5 शुक्ल जी छायावाद को किसकी कविताओं के अनुकरण-प्रवृत्ति का विकास मानते थे?

Question ID : **16794316828**

Ans
✗ 1. सुमित्रानंदन पंत
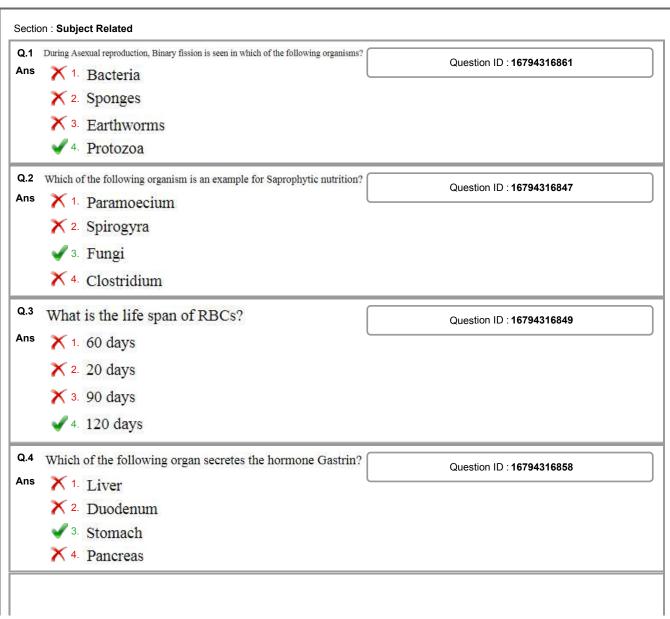
✔ 2. रवीन्द्रनाथ टैगोर

✘ 3. जयशंकर प्रसाद

✘ 4. श्रीधर पाठक

Q.6 निम्न में कौन सी प्रेरणार्थक क्रिया है?

Question ID : **16794316836**

Ans

✘ 1. धोना

✘ 2. छूना

✘ 3. देना

✔ 4. सिलाना

Q.7 'मैं अपना काम स्वयं कर देता हूँ।' वाक्य में अशुद्ध अंश है:

Question ID : **16794316846**

Ans

✘ 1. स्वयं

✔ 2. कर देता हूँ।

✘ 3. अपना काम

✘ 4. मैं

Q.8 'परोक्ष' में कौन सा समास है?

Question ID : **16794316838**

Ans

✘ 1. द्विगु

✔ 2. अव्ययीभाव

✘ 3. तत्पुरुष

✘ 4. द्वंद्व

Q.9 निम्न में कौन सा शब्द तत्सम है?

Question ID : **16794316832**

Ans

✘ 1. हल्दी

✘ 2. हाथ

✔ 3. हस्ती

✘ 4. हाथी

Q.10 निम्न में कौन सा शब्द पुलिंग है?

Question ID : **16794316839**

Ans

✔ 1. अनार

✘ 2. अवज्ञा

✘ 3. अपेक्षा

✘ 4. अहिंसा

Q.11 'गदहा' का पर्यायवाची है:

Question ID : **16794316842**

Ans

✘ 1. तुरंग

✘ 2. उदक

✔ 3. वैशाखनन्दन

✘ 4. घोटक

Q.12 'हलका' का विलोम होगा:

Question ID : **16794316843**

Ans

✗ 1. गंभीर

✔ 2. भारी

✗ 3. शून्य

✗ 4. मजबूत

Q.13 'दुरुपयोग' का संधि-विच्छेद होगा:

Question ID : **16794316837**

Ans

✗ 1. दू + उपयोग

✗ 2. दू: + उपयोग

✔ 3. दु: + उपयोग

✗ 4. दु + उपयोग

Q.14 निम्न में शुद्ध वर्तनी वाला शब्द है:

Question ID : **16794316845**

Ans

✗ 1. समुद्रिक

✗ 2. सामूद्रिक

✔ 3. सामुद्रिक

✗ 4. समुद्रीक

Q.15 निम्न में भाववाचक संज्ञा कौन सी है?

Question ID : **16794316834**

Ans

✗ 1. गाँधीजी

✗ 2. घर

✗ 3. दल

✔ 4. लड़कपन

Q.16 निम्न में कौन सा शब्द तद्भव है?

Question ID : **16794316833**

Ans

✔ 1. सीधा

✗ 2. श्रृंखला

✗ 3. शिक्षा

✗ 4. शिष्य

Q.17 'तार्किक' में प्रत्यय है:

Question ID : **16794316841**

Ans

✔ 1. इक

✗ 2. क

✗ 3. ता

✗ 4. अ

Q.18 निम्न में से कौन सा शब्द अव्यय है?

Question ID : **16794316835**

Ans

✔ 1. तब

✗ 2. सतही

✗ 3. पतला

✗ 4. पुराना

Q.19 'सर्वसाधारण से संबन्धित' के लिए एक शब्द होगा:

Question ID : **16794316844**

Ans

✔ 1. सार्वजनिक

✗ 2. सांस्कृतिक

✗ 3. राजनीतिक

✗ 4. सामाजिक

Q.20 'अनुशीलन' में उपसर्ग है:

Question ID : **16794316840**

Ans

✔ 1. अनु

✗ 2. अ

✗ 3. अन

✗ 4. न

Section : **Subject Related**

Q.1 During Asexual reproduction, Binary fission is seen in which of the following organisms?

Question ID : **16794316861**

Ans

✗ 1. Bacteria

✗ 2. Sponges

✗ 3. Earthworms

✔ 4. Protozoa

Q.2 Which of the following organism is an example for Saprophytic nutrition?

Question ID : **16794316847**

Ans

✗ 1. Paramoecium

✗ 2. Spirogyra

✔ 3. Fungi

✗ 4. Clostridium

Q.3 What is the life span of RBCs?

Question ID : **16794316849**

Ans

✗ 1. 60 days

✗ 2. 20 days

✗ 3. 90 days

✔ 4. 120 days

Q.4 Which of the following organ secretes the hormone Gastrin?

Question ID : **16794316858**

Ans

✗ 1. Liver

✗ 2. Duodenum

✔ 3. Stomach

✗ 4. Pancreas

Q.5 Pulmonary arteries supply the blood to which vital organ in human beings?

Ans
- ✗ 1. Brain
- ✔ 2. Lungs
- ✗ 3. Liver
- ✗ 4. Kidney

Question ID : **16794316850**

Q.6 The infection of the folds of the human brain is referred to as?

Ans
- ✗ 1. Rhinitis
- ✗ 2. Synovitis
- ✔ 3. Meningitis
- ✗ 4. Arthritis

Question ID : **16794316855**

Q.7 What is the normal Gestation period of human beings?

Ans
- ✗ 1. 400 days
- ✗ 2. 120 days
- ✗ 3. 200 days
- ✔ 4. 270 days

Question ID : **16794316862**

Q.8 Loss of memory power is referred to as?

Ans
- ✗ 1. Ataxia
- ✔ 2. Amnesia
- ✗ 3. Agnosia
- ✗ 4. Aphasia

Question ID : **16794316856**

Q.9 Which of the following is seen in negative Geotropism?

Ans
- ✗ 1. Downward growth of plant shoots is seen
- ✔ 2. Upward growth of plant shoots is seen
- ✗ 3. Upward growth of plant roots is seen
- ✗ 4. Downward growth of plant roots is seen

Question ID : **16794316857**

Q.10 The formation of mRNA from DNA is known as:

Ans
- ✗ 1. Iversion
- ✔ 2. Transcription
- ✗ 3. Translation
- ✗ 4. Transversion

Question ID : **16794316865**

Q.11 Which of the following gland releases Oxytocin?

Ans
- ✗ 1. Anterior part of Pituitary gland
- ✔ 2. Posterior part of Pituitary gland
- ✗ 3. Pineal gland
- ✗ 4. Thyroid gland

Question ID : **16794316859**

Q.12 Which of the following hormone plays a major role during milk ejection in human beings?

Ans
- ✗ 1. Estrogen

Question ID : **16794316863**

✗ 2. Prolactin

✓ 3. Oxytocin

✗ 4. Progesterone

Q.13 Which of the following is a false statement?

Ans ✓ 1.

Question ID : **16794316860**

Insulin is secreted by alpha cells of Islets of langerhans

✗ 2.

Pituitary gland is also known as Hypophysis cerebri

✗ 3. Adenohypophysis releases FSH

✗ 4.

98% of Pancreas is formed by Exocrine part

Q.14 Which of the following cell organelle is involved in protein synthesis?

Ans ✗ 1. Smooth Endoplasmic Reticulum

Question ID : **16794316848**

✓ 2. Rough Endoplasmic Reticulum

✗ 3. Chloroplasts

✗ 4. Lysosomes

Q.15 The double stranded structure of DNA was first described by which of the following scientists?

Ans ✓ 1. Crick & Watson

Question ID : **16794316864**

✗ 2. Singer & Nicholson

✗ 3. Urey & Miller

✗ 4. Hershey & Chase

Q.16 Who is popularly known as the father of Evolutionary Biology?

Ans ✗ 1. Herbert Spencer

Question ID : **16794316866**

✓ 2. Charles Darwin

✗ 3. Stanley Miller

✗ 4. Julian Huxley

Q.17 Juxtra Glomerular apparatus is a part of which of the following cell in mammals?

Ans ✗ 1. Oocyte

Question ID : **16794316852**

✗ 2. Myocyte

✗ 3. Neuron

✓ 4. Nephron

Q.18 Which of the following Cranial nerve supplies the Heart?

Ans ✓ 1. X

Question ID : **16794316854**

✗ 2. IX

✗ 3. VII

✗ 4. XII

Q.19 Plastids play a major role in which of the following life process?

Ans ✓ 1. Photosynthesis

Question ID : **16794316851**

✗ 2. Circulation

✗ 3. Transpiration

✗ 4. Respiration

Q.20 Detoxification of harmful substances takes place in which of the following organ in human beings?

Ans

✗ 1. Spleen

✓ 2. Liver

✗ 3. Colon

✗ 4. Kidney

Question ID : **16794316853**

Section : **Subject Related**

Q.1 Fowl Cholera is caused by which of the following bacteria?

Ans

✓ 1. Pasturella multocida

✗ 2. Vibrio cholera

✗ 3. Bacillus anthracis

✗ 4. Pasturella pestis

Question ID : **16794316885**

Q.2 Blue Revolution is associated with which of the following?

Ans

✓ 1. Aquaculture

✗ 2. Sericulture

✗ 3. Agriculture

✗ 4. Vermiculture

Question ID : **16794316884**

Q.3 Which one is the Indigenous variety of fowl?

Ans

✗ 1. White leghorn

✗ 2. Leghorn

✗ 3. Apis

✓ 4. Aseel

Question ID : **16794316882**

Q.4 Which of the following is an example for Persistent Organic pollutant?

Ans

✗ 1. H_2SO_4

✓ 2. Hexachloro Benzene

✗ 3. NO_2

✗ 4. HNO_3

Question ID : **16794316879**

Q.5 Lichens are formed as the symbiotic association between which organisms?

Ans

✗ 1. Bacteria-Algae

✓ 2. Algae-Fungi

✗ 3. Algae-Protozoa

✗ 4. Bacteria-Fungi

Question ID : **16794316867**

Q.6 Which of the cell organelle is not present in animal cell?

Ans

✗ 1. Nucleus

Question ID : **16794316871**

   ✔ 2. Cellwall

   ✘ 3. Ribosome

   ✘ 4. Golgi

Q.7 The World Environment day is celebrated on which date?

Question ID : **16794316883**

Ans
   ✔ 1. 5th June

   ✘ 2. 10th January

   ✘ 3. 22nd December

   ✘ 4. 22nd April

Q.8 Who among the following has first proposed the concept of Ecology?

Question ID : **16794316868**

Ans
   ✘ 1. Linnaeus

   ✔ 2. Tansley

   ✘ 3. Huxley

   ✘ 4. Darwin

Q.9 Name the filtration units of the excretory system in human.

Question ID : **16794316873**

Ans
   ✘ 1. Ureter

   ✔ 2. Nephrons

   ✘ 3. Neurons

   ✘ 4. Urethra

Q.10 निम्नलिखित में से कौन सी एक बैक्टीरिया से होने वाली बीमारी है?

Question ID : **16794316880**

Ans
   ✘ 1. दाद

   ✘ 2. मलेरिया

   ✔ 3. टाइफाइड

   ✘ 4. खसरा

Q.11 Which of the following are responsible for acid rains formation?

Question ID : **16794316877**

Ans
   ✘ 1. CO_2 & N_2O

   ✔ 2. SO_2 & NO_2

   ✘ 3. CO & CO_2

   ✘ 4. CO_2 & NO_2

Q.12 Which of the following occurs when an organism absorbs the chemicals at a faster rate than the metabolic capacity of their body?

Question ID : **16794316878**

Ans
   ✘ 1. Bio-augmentation

   ✘ 2. Bio-magnification

   ✔ 3. Bio-accumulation

   ✘ 4. Bio-degradation

Q.13 Lysosomes are also called as:

Question ID : **16794316874**

Ans
   ✘ 1. Kitchens of the cell

   ✔ 2. Suicidal bags

✗ 3. Protein factories

✗ 4. Power house of the cell
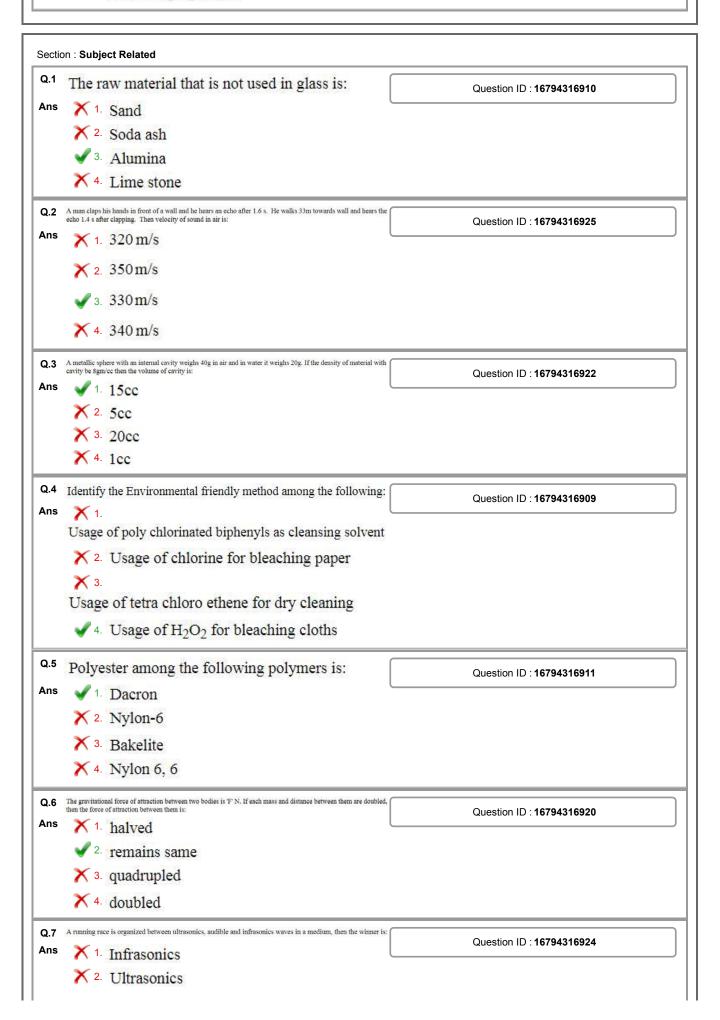
Q.14 Res rot is disease of the following crop:

Question ID : **16794316876**

Ans ✔ 1. Sugar cane

✗ 2. Paddy

✗ 3. Wheat

✗ 4. Chick pea

Q.15 Name the enzyme which acts on carbohydrates in the saliva.

Question ID : **16794316872**

Ans ✗ 1. Cellulose

✗ 2. Pepsin

✗ 3. Trypsin

✔ 4. Amylase

Q.16 Which of the following chemicals are used in the manufacture of Refrigerators?

Question ID : **16794316870**

Ans ✗ 1. Hexachloro carbons

✗ 2. H_2SO_4

✔ 3. Chlorofluoro carbons

✗ 4. Suphur hexafluoride

Q.17 Ozone layer is present in which region of Atmosphere?

Question ID : **16794316869**

Ans ✗ 1. Ionosphere

✔ 2. Stratosphere

✗ 3. Exosphere

✗ 4. Troposphere

Q.18 Where is Jim Corbett National park located?

Question ID : **16794316881**

Ans ✗ 1. Uttar Pradesh

✗ 2. Himachal Pradesh

✔ 3. Uttarakhand

✗ 4. Haryana

Q.19 Mycorrhizae are:

Question ID : **16794316875**

Ans ✗ 1. Nitrogen fixing bacteria

✗ 2. Nitrogen fixing protozoa

✗ 3. Carbon fixing bacteria

✔ 4. Nitrogen fixing fungi

Q.20 Foot and mouth disease in cattle is caused by which micro organisms?

Question ID : **16794316886**

Ans ✗ 1. Protozoa

✗ 2. Bacteria

✗ 3. Fungi

✓ 4. Viruses

Section : **Subject Related**

Q.1 Identify the incorrect statement regarding Smelting:

Question ID : **16794316901**

Ans ✗ 1. Molten metal is obtained

✗ 2. Slag is formed

✓ 3. Oxidation of ore takes place

✗ 4. Reduction of ore takes place

Q.2 The radioactive isotope that can be used to track the uptake of fertilizer from root level to leaves is:

Question ID : **16794316890**

Ans ✓ 1. P–32

✗ 2. P–30

✗ 3. N–13

✗ 4. N–16

Q.3 The correct order of decreasing electron gain enthalpy with negative sign for chalcogens is - Identify

Question ID : **16794316893**

Ans ✗ 1. $O > S > Se > Te$

✗ 2. $O < Te < Se < S$

✓ 3. $S > Se > Te > O$

✗ 4. $S > O > Se > Te$

Q.4 What is the P^{K_w} of pure water at 90ºC, whose $[H_3O^+]$ is 10^{-5} M?

Question ID : **16794316895**

Ans ✗ 1. 7

✗ 2. 10^{-10}

✓ 3. 10

✗ 4. 10^9

Q.5 Alkaline medium inhibits the rusting of iron, because - Identify

Question ID : **16794316899**

Ans ✗ 1. OH^- are produced

✓ 2.

Non availability of H^+ ions which reduces oxidation of Fe to Fe^{+2} ions

✗ 3. OH^- ions are not produced

✗ 4. Rate of oxidation of iron is high

Q.6 What are the Number of moles of NaOH, H_2O and NaH_2PO_2 respectively in the following equation after balancing is $P_4 + NaOH + H_2O \rightarrow NaH_2PO_2 + PH_3$?

Question ID : **16794316898**

Ans ✗ 1. 3, 4, 4

✗ 2. 6, 4, 3

✗ 3. 4, 3, 3

✓ 4. 3, 3, 3

Q.7 Mendeleev left the gaps for the elements with predicted atomic weights 68 & 72 respectively are discoveried later as - Identify

Question ID : **16794316894**

Ans
- ✗ 1. Eka aluminimum & Eka Silicon
- ✗ 2. Aluminimum & Silicon
- ✗ 3. Scandium & Germanium
- ✔ 4. Gallium & Germanium

Q.8 A Liquid metal at room temperature reacts with ozone to form - Identify

Question ID : **16794316891**

Ans
- ✗ 1. Br_2O
- ✔ 2. Hg_2O
- ✗ 3. Rb_2O
- ✗ 4. HgO

Q.9 Malachite is an ore of copper. Its composition is - Identify

Question ID : **16794316900**

Ans
- ✗ 1. $CuCO_3$
- ✗ 2. $CuCl_2.CuCO_3$
- ✔ 3. $CuCO_3.Cu(OH)_2$
- ✗ 4. $Cu(OH)_2$

Q.10 10 grams of a gas occupies 5.6 L of volume at S.T.P. The vapour density & formula of the compound are:

Question ID : **16794316889**

Ans
- ✗ 1. 40 & C_6H_8
- ✗ 2. 40 & C_3H_4
- ✗ 3. 80 & C_6H_8
- ✔ 4. 20 & C_3H_4

Q.11 The following conversation is - Identify

Question ID : **16794316902**

Ans
- ✗ 1. Free radical substitution
- ✔ 2. Electrophilic substitution
- ✗ 3. Nucleophilic substitution
- ✗ 4. Aromatic addition

Q.12 What is the colour of methyl orange when few drops of it added to the mixture of solution contains 80 ml of 1M HCl and 30 ml of 1M NaOH?

Question ID : **16794316896**

Ans
- ✔ 1. Red
- ✗ 2. Colour less
- ✗ 3. Yellow
- ✗ 4. Orange

Q.13 Enthanoic acid on reaction with methyl magnesium bromide gives - Identify

Question ID : **16794316906**

Ans
- ✗ 1. Propanone
- ✗ 2. Enthane
- ✔ 3. Methane

X 4. Ethanol

Q.14 Negative idoform test is given by - Identify.

Question ID : **16794316905**

Ans
✔ 1. Benzyl alcohol

X 2. Isopropyl alcohol

X 3. Ethanal

X 4. Enthanol

Q.15 According to Thomson model of atom, positive charge is - Identify

Question ID : **16794316892**

Ans
X 1.
Evenly distribution on the surface of the atom

✔ 2. Evenly distributed all over the atom

X 3. Randomly distributed all over the atom

X 4. Located at the centre of atom

Q.16 Sea divers use a mixture of 11.7% He, 56.2% N_2 and 32.1% O_2 to cope up with high pressure under water. It is an application of:

Question ID : **16794316887**

Ans
X 1. Graham's law of diffusion

X 2. Raoult's law

X 3. Dalton's law of partial pressures

✔ 4. Henry's law

Q.17 Identify the Incorrect statement among the following regarding Brownian movement.

Question ID : **16794316888**

Ans
X 1.
It is observed up to particle size of 0.5 microns

X 2. Depends upon temperature

X 3. It is the kinetic property of sol

✔ 4.
It is independent of wave length of light used

Q.18 The reaction 3S + 6NaOH →Na_2SO_3 + 2Na_2S+3H_2O is an example of - Identify

Question ID : **16794316897**

Ans
X 1. Comproportionation reaction

X 2. Reduction reaction

X 3. Oxidation reaction

✔ 4. Disproportionation reaction

Q.19 Glucose & Fructose are - Identify.

Question ID : **16794316903**

Ans
X 1. Optical isomers

X 2. Anomers

X 3. Chain isomers

✔ 4. Functional isomers

Q.20 IUPAC name of allyl chloride is - Identify.

Question ID : **16794316904**

Ans
X 1. 3-chloro-prop-2-ene

X 2. 1-chloro-prop-2-ene

X 3. 1-chloro-prop-3-ene

✔ 4. 3-chloro-prop-1-ene

Section : **Subject Related**

Q.1 The raw material that is not used in glass is:

Ans
- ✘ 1. Sand
- ✘ 2. Soda ash
- ✔ 3. Alumina
- ✘ 4. Lime stone

Question ID : **16794316910**

Q.2 A man claps his hands in front of a wall and he hears an echo after 1.6 s. He walks 33m towards wall and hears the echo 1.4 s after clapping. Then velocity of sound in air is:

Ans
- ✘ 1. 320 m/s
- ✘ 2. 350 m/s
- ✔ 3. 330 m/s
- ✘ 4. 340 m/s

Question ID : **16794316925**

Q.3 A metallic sphere with an internal cavity weighs 40g in air and in water it weighs 20g. If the density of material with cavity be 8gm/cc then the volume of cavity is:

Ans
- ✔ 1. 15cc
- ✘ 2. 5cc
- ✘ 3. 20cc
- ✘ 4. 1cc

Question ID : **16794316922**

Q.4 Identify the Environmental friendly method among the following:

Ans
- ✘ 1.
Usage of poly chlorinated biphenyls as cleansing solvent
- ✘ 2. Usage of chlorine for bleaching paper
- ✘ 3.
Usage of tetra chloro ethene for dry cleaning
- ✔ 4. Usage of H_2O_2 for bleaching cloths

Question ID : **16794316909**

Q.5 Polyester among the following polymers is:

Ans
- ✔ 1. Dacron
- ✘ 2. Nylon-6
- ✘ 3. Bakelite
- ✘ 4. Nylon 6, 6

Question ID : **16794316911**

Q.6 The gravitational force of attraction between two bodies is 'F' N. If each mass and distance between them are doubled, then the force of attraction between them is:

Ans
- ✘ 1. halved
- ✔ 2. remains same
- ✘ 3. quadrupled
- ✘ 4. doubled

Question ID : **16794316920**

Q.7 A running race is organized between ultrasonics, audible and infrasonics waves in a medium, then the winner is:

Ans
- ✘ 1. Infrasonics
- ✘ 2. Ultrasonics

Question ID : **16794316924**

✗ 3. Audible

✓ 4.
All have same speed and there is no winner or loser.

Q.8 A spaceship travelling in space at 300 km/s fires its engine for 15s, such that its final velocity is 600 km/s. The total distance travelled by the ship in one minute starting from the time of firing is:

Question ID : **16794316912**

Ans   ✗ 1. 27,000 km

✗ 2. 43,250 km

✓ 3. 33,750 km

✗ 4. 6,750 km

Q.9 The velocity-time graph of a ball moving on the surface of floor is shown in figure:

Question ID : **16794316915**

The force acting on the ball, if mass of the ball is 100gm.

Ans   ✗ 1. 0.1 N

✗ 2. 0.4 N

✗ 3. 0.2 N

✓ 4. 0.5 N

Q.10 A 1 cm object is placed perpendicular to the principal axis of a convex mirror of focal length 7.5 cm. Find its distance from the mirror if the image formed is 0.6 cm in size.

Question ID : **16794316926**

Ans   ✗ 1. 10 cm

✗ 2. 12 cm

✗ 3. 8 cm

✓ 4. 5 cm

Q.11 The weight of body in air is 100N. How much will it weigh in water, if it displaces 400cc of water? ($g = 10 m/s^2$).

Question ID : **16794316923**

Ans   ✗ 1. 66 N

✗ 2. 36 N

✓ 3. 96 N

✗ 4. 24 N

Q.12 If the concentration of nitrates in water exceeds 50 ppm, it leads to - Identify

Question ID : **16794316908**

Ans   ✗ 1. Damage of kidneys

✗ 2. Methamoglobinemia

✓ 3. Laxative effect

✗ 4. Gastrointestinal diseases

Q.13 The velocity of a body of mass 100g is increased from 5 m/s to 36km/hr in 5s. The force acting on the body is:

Question ID : **16794316917**

Ans   ✗ 1. 0.8 N

✗ 2. 0.2 N

✔ 3. 0.1N

✘ 4. 0.5N

Q.14 A body freely falling from rest has acquired a velocity 'v' after it falls through a distance 'h'. The distance it has to fall down further for its velocity to become doubled is:

Question ID : **16794316921**

Ans ✘ 1. 2h

✘ 2. 4h

✔ 3. 3h

✘ 4. h

Q.15 The velocity - time graph of a body in motion is as follows:

Question ID : **16794316914**

The displacement of the body in 5s.

Ans ✘ 1. 5m

✘ 2. 2m

✔ 3. 3m

✘ 4. 1m

Q.16 A particle has displacement 12cm towards east and 9cm towards north and then 6cm vertically upward. The magnitude of the displacement of the particle is:

Question ID : **16794316913**

Ans ✔ 1. $\sqrt{261}$ cm

✘ 2. $\sqrt{131}$ cm

✘ 3. $\sqrt{161}$ cm

✘ 4. $\sqrt{331}$ cm

Q.17 A body of mass 2kg is thrown up vertically with a kinetic energy of 500J. If the acceleration due to gravity is 10m/s², the height at which the kinetic energy of the body becomes half of the original value is _____.

Question ID : **16794316918**

Ans ✔ 1. 12.5 m

✘ 2. 10.2 m

✘ 3. 8.5 m

✘ 4. 6.75 m

Q.18 A mass of 4kg moving at 3m/s collides with a mass of 6kg moving at 2m/s in the opposite direction and they stick together. The combined mass has velocity of:

Question ID : **16794316916**

Ans ✘ 1. 5.6 m/s

✘ 2. 2.4 m/s

✘ 3. 4.8 m/s

✔ 4. Zero

Q.19 A machine gun fires 60 bullets per minute with a velocity of 700m/s. If each bullet has a mass of 50g, the power developed by the gun is:

Question ID : **16794316919**

Ans
✗ 1. 250W
✗ 2. 50W
✓ 3. 12250W
✗ 4. 2250W

Q.20 C_2H_5Br reacts with CH_3Br in presence of Na and dry ether gives:

Question ID : **16794316907**

Ans
✗ 1. C_3H_8
✗ 2. C_4H_{10}
✗ 3. C_2H_6
✓ 4. C_2H_6,C_3H_8,C_4H_{10}

Section : **Subject Related**

Q.1 A convex lens produces a double size real image when an object is placed at a distance of 18 cm from it. Where should the object be placed in front of convex lens to produce a triple size real image?

Question ID : **16794316931**

Ans
✗ 1. 9 cm
✗ 2. 12 cm
✓ 3. 16 cm
✗ 4. 6 cm

Q.2 Which of the following statement is correct?

Question ID : **16794316934**

Ans
✗ 1.
A person with hypermetropia can see nearby objects clearly
✗ 2.
A person with hypermetropia cannot see distant objects clearly
✓ 3.
A person with myopia can see nearby objects clearly
✗ 4.
A person with myopia can see distant objects clearly

Q.3 The refractive index of water is $\frac{4}{3}$ and for glass it is $\frac{3}{2}$, w.r.t. air. The refractive index of glass w.r.t. water is _____.

Question ID : **16794316928**

Ans
✗ 1. $\frac{8}{9}$
✓ 2. $\frac{9}{8}$
✗ 3. $\frac{2}{3}$
✗ 4. $\frac{3}{2}$

Q.4 A converging lens forms a real image I of an object on its principle axis. A rectangular glass slab of refractive index μ and thickness x is introduced between I and the lens. Image I will move:

Question ID : **16794316930**

Ans
✗ 1. Away from the lens by $(\mu-1)x$
✓ 2. Away from the lens by $\left(1-\frac{1}{\mu}\right)x$
✗ 3. Towards the lens by $\left(1-\frac{1}{\mu}\right)x$

✗ 4. Towards the lens by $(\mu-1)x$

Q.5 A charge at rest produces:

Question ID : **16794316935**

Ans

✗ 1. Magnetic field only

✔ 2. Electric field only

✗ 3. Both electric field and magnetic field

✗ 4. Neither electric field nor magnetic field

Q.6 A cell of negligible resistance and e.m.f 2 volt is connected to series combination of 2 ohm, 3 ohm and 5 ohm. The potential difference across the 3 ohm resistance is:

Question ID : **16794316933**

Ans

✔ 1. 0.6 V

✗ 2. 0.4 V

✗ 3. 0.2 V

✗ 4. 0.8 V

Q.7 A bird in air is at a height 'y' from the surface of water. A fish is at a depth 'x' below the surface of water. The apparent distance of fish from the bird is (The refractive index of water is μ)

Question ID : **16794316929**

Ans

✗ 1. $x+\dfrac{y}{\mu}$

✗ 2. $\mu x+y$

✗ 3. $\dfrac{x}{\mu}-y$

✔ 4. $\dfrac{x}{\mu}+y$

Q.8 A man uses a concave mirror for shaving. He keeps his face at a distance of 25 cm from the mirror and gets an image which is 1.4 times enlarged. Find the focal length of the mirror.

Question ID : **16794316927**

Ans

✔ 1. 87.5 cm

✗ 2. 68.5 cm

✗ 3. 24.5 cm

✗ 4. 48.5 cm

Q.9 The Atom bomb and Hydrogen bomb are based on the principle of:

Question ID : **16794316936**

Ans ✗ 1.

Nuclear Fission Reaction ; Nuclear Fission Reaction

✗ 2.

Nuclear Fusion Reaction ; Nuclear Fission Reaction

✔ 3.

Nuclear Fission Reaction ; Nuclear Fusion Reaction

✗ 4.

Nuclear Fusion Reaction ; Nuclear Fusion Reaction

Q.10 Find the potential difference across the resistance R_2 in the given circuit (Given R_1 =15 ohm, R_2 =15 ohm, R_3 = 30 ohm and R_4 = 35 ohm)

Question ID : **16794316932**

Ans ✗ 1. 4.5 V

✗ 2. 3.5 V

✔ 3. 7.5 V

✗ 4. 6.5 V

Q.11 Essence of Inclusion lies in _____.

Question ID : **16794316946**

Ans ✔ 1. Embracing diversity

✗ 2. Appropriate infrastructure

✗ 3. Enrolling all students

✗ 4. Accessibility resources

Q.12 "Readers come with a prior knowledge and experiences and continue to read as long as the text confirms their expectations" which of the reading models does this define?

Question ID : **16794316943**

Ans ✔ 1. Top-down

✗ 2. Interactive

✗ 3. Bottom-up

✗ 4. Lateral

Q.13 Regional bias can be mitigated in schools by one of the following, choose the correct answer from the following.

Question ID : **16794316938**

Ans ✗ 1. Phonetics in English

✗ 2. Experimental methods in science

✗ 3. Logical reasoning in mathematics

✔ 4. Purposive teaching of history

Q.14 Which of the following is an example of an Onomatopoeic word?

Question ID : **16794316942**

Ans ✔ 1. Quack-quack

✗ 2. Sing-song

✗ 3. Read-write

✗ 4. Tell-tale

Q.15 The process in which new and different ways of understanding and thinking emerge at different times is called _____. Choose the correct answer from the options below:

Question ID : **16794316937**

Ans ✔ 1. Discontinuous learning

✗ 2. Unexpected learning

✗ 3. Continuous learning

✗ 4. Expected learning

Q.16 Which of the following does not define learning?

Learning can be defined as _____.

Question ID : **16794316939**

Ans ✗ 1. Change in behaviour

✔ 2. Change that is not measurable

✗ 3. Change for better or worse

✗ 4.
Change achieved through practice and experience

Q.17 Special attention given to students with or without special needs is called _____. Choose the right option.

Question ID : **16794316941**

Ans ✗ 1. Integrated education
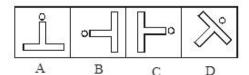
❌ 2. General education

✔️ 3. Remedial education

❌ 4. Special education

Q.18 Identify the symbol that is unique to the mathematics language.

Question ID : **16794316940**

Ans

✔️ 1. %

❌ 2. ?

❌ 3. &

❌ 4. /

Q.19 A significant and unique aspect of art evaluation is to systematically assess the child's _____.

Choose the appropriate response from the following.

Question ID : **16794316944**

Ans

❌ 1. Knowledge of content

✔️ 2. Thought and expression

❌ 3. Understanding of concept

❌ 4. Memory of events

Q.20 Energy in natural systems is transferred by _____.

Choose the best option from the following.

Question ID : **16794316945**

Ans

✔️ 1. Air

❌ 2. Sound

❌ 3. Light

❌ 4. Heat

DSSSB SEP 2018

Participant ID:	
Participant Name:	**HaryanaJobs.in**
Test Center Name:	iON Digital Zone iDZ 1 Mathura Road
Test Date:	29/09/2018
Test Time:	12:30 PM - 2:30 PM
Subject:	TGT NATURAL SCIENCE MALE

Section : **Mental Ability**

Q.1 Choose the odd figure in the series:

Question ID : **16794316951**

A   B   C   D

Ans ✗ 1. B

✗ 2. A

✗ 3. C

✔ 4. D

Q.2 Find the odd pair of numerals:

Question ID : **16794316964**

Ans ✗ 1. 13,15:14

✗ 2. 6,8:7

✔ 3. 14,16:18

✗ 4. 12,16:14

Q.3 आपके मित्र ने हाल ही में प्रथम वर्ष बी.ई. में कॉलेज में दाखिला लिया है। आप देखते हैं कि सीनियर उसे परेशान कर रहे हैं। इस स्थिति से निपटने के लिए अपनाये जाने वाला सबसे अच्छा तरीका क्या है?

Question ID : **16794316955**

Ans ✔ 1.

इस जानकारी को कॉलेज के प्रधानाचार्य के ध्यान में लाना

✗ 2.

अपने दोस्त के माता-पिता को फोन करना और स्थिति के बारे में जानकारी देना

✗ 3.

अपने दोस्त को चुपचाप रैगिंग सहन करने की चेतावनी देना

✗ 4.

सीनियरों को चेतावनी देना कि रैगिंग एक अपराध है

Q.4 Animal always has:

Question ID : **16794316957**

Identify the best option that suits the statement.

Ans ✗ 1. Fur

✗ 2. Wings

✗ 3. Horns

✓ 4. Heart

Q.5 Find the odd pair of words:

Question ID : **16794316963**

Ans ✓ 1. Craniology : shells

✗ 2. Virology : viruses

✗ 3. Physiology : body

✗ 4. Zoology : animals

Q.6 What will be the next term in the following series:

Question ID : **16794316965**

4, 5, 12, 39, 160,?

Ans ✗ 1. 625

✓ 2. 805

✗ 3. 730

✗ 4. 820

Q.7 Find the embedded figure given below from the options:

Question ID : **16794316953**

Ans

✗ 1.

✗ 2.

✗ 3.

✓ 4.

Q.8 At present, the ratio of ages of x and y is 1:2 respectively. Five years hence this ratio will become 2:3 respectively. What is x's present age in years?

Question ID : **16794316962**

Ans ✓ 1. 5 years

✗ 2. 3 years

✗ 3. 12 years

✗ 4. 10 years

Q.9 यदि एक घड़ी को छः बजाने में छः सेकंड लगता है तो दस बजाने में उसे कितना समय लगेगा?

Question ID : **16794316961**

Ans

❌ 1. $10\dfrac{1}{5}$ sec

❌ 2. $10\dfrac{3}{5}$ sec

✔️ 3. $10\dfrac{4}{5}$ sec

❌ 4. $10\dfrac{2}{5}$ sec

Q.10 Choose the similar figure in the series:

Question ID : **16794316948**

Ans

❌ 1.

❌ 2.

❌ 3.

✔️ 4.

Q.11 Choose the odd figure in the series:

Question ID : **16794316950**

A   B   C   D

Ans   ❌ 1. D

❌ 2. A

❌ 3. B

✔️ 4. C

Q.12 Study the following carefully and answer the given questions:

Question ID : **16794316958**

Which region belongs to women who are neither computer engineers nor MCA?

Ans   ❌ 1. 13
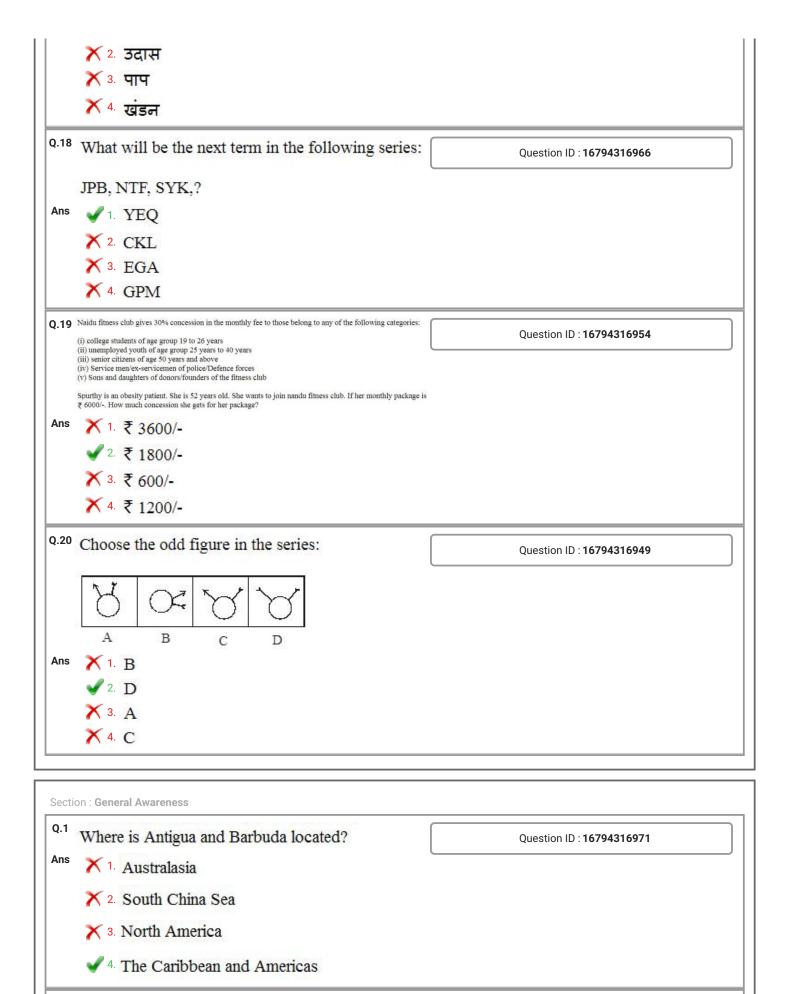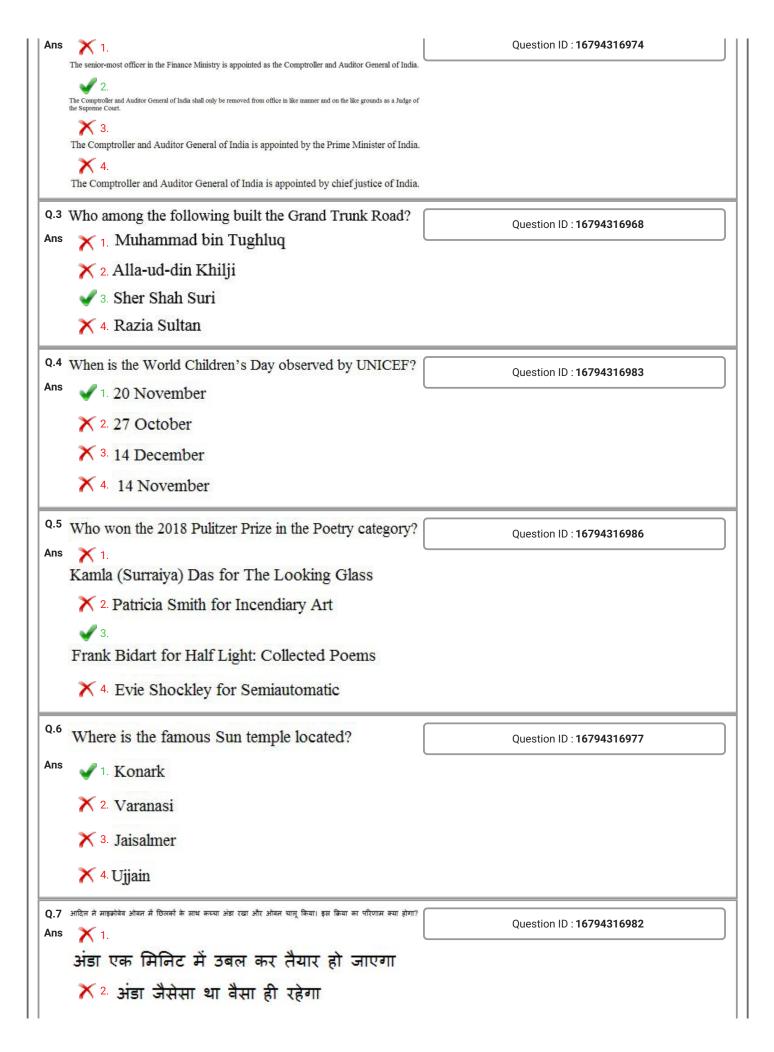
❌ 2. 5

✓ 3. 8
✗ 4. 1

Q.13 The following pie diagram shows information about the crop cultivation for the pulses & grains in "XYZ" state for the year of 2015-2016. Read the information and answer the questions:

The total crop produced in "XYZ" state is 23,428 tonnes.

Green gram
20%
Wheat 35% 5% Millet
10% 30% Rice
Corn

How much crop of green gram is cultivated in 'XYZ' city during 2015-16?

Ans
✗ 1. 9872.4 tonnes
✗ 2. 8185.6 tonnes
✗ 3. 2342.8 tonnes
✓ 4. 4685.6 tonnes

Q.14 विजया राजेश की बहन है। राजेश की माँ के भाई की इकलौती बहन का बेटा विजया से कैसे संबंधित है?

Ans
✓ 1. भाई
✗ 2. चाचा
✗ 3. पिता
✗ 4. दादा

Q.15 If A stands for +, B stands for −, C stands for ×, then what is the value of (8C5) A (6C6) B2?

Ans
✗ 1. 85
✓ 2. 74
✗ 3. 94
✗ 4. 79

Q.16 How the pattern would appear when the transparent sheet is folded at the dotted line?

Ans

✗ 1.

✓ 2.

✗ 3.

✗ 4.

Q.17 जिस तरह से भारी चूक से त्रुटि संबंधित है उसी तरह से रोष किससे संबंधित है?

Ans
✓ 1. क्रोध

✗ 2. उदास

✗ 3. पाप

✗ 4. खंडन

Q.18 What will be the next term in the following series:

JPB, NTF, SYK,?

Ans ✔ 1. YEQ

✗ 2. CKL

✗ 3. EGA

✗ 4. GPM

Q.19 Naidu fitness club gives 30% concession in the monthly fee to those belong to any of the following categories:

(i) college students of age group 19 to 26 years
(ii) unemployed youth of age group 25 years to 40 years
(iii) senior citizens of age 50 years and above
(iv) Service men/ex-servicemen of police/Defence forces
(v) Sons and daughters of donors/founders of the fitness club

Spurthy is an obesity patient. She is 52 years old. She wants to join nandu fitness club. If her monthly package is ₹ 6000/-. How much concession she gets for her package?

Ans ✗ 1. ₹ 3600/-

✔ 2. ₹ 1800/-

✗ 3. ₹ 600/-

✗ 4. ₹ 1200/-

Q.20 Choose the odd figure in the series:

A   B   C   D

Ans ✗ 1. B

✔ 2. D

✗ 3. A

✗ 4. C

Section : **General Awareness**

Q.1 Where is Antigua and Barbuda located?

Ans ✗ 1. Australasia

✗ 2. South China Sea

✗ 3. North America

✔ 4. The Caribbean and Americas

Q.2 Which of the following statements is correct regarding the Comptroller and Auditor General (CAG) of India?

Ans ✗ 1.

The senior-most officer in the Finance Ministry is appointed as the Comptroller and Auditor General of India.

✓ 2.

The Comptroller and Auditor General of India shall only be removed from office in like manner and on the like grounds as a Judge of the Supreme Court.

✗ 3.

The Comptroller and Auditor General of India is appointed by the Prime Minister of India.

✗ 4.

The Comptroller and Auditor General of India is appointed by chief justice of India.

Q.3 Who among the following built the Grand Trunk Road?

Ans ✗ 1. Muhammad bin Tughluq

✗ 2. Alla-ud-din Khilji

✓ 3. Sher Shah Suri

✗ 4. Razia Sultan

Question ID : **16794316968**

Q.4 When is the World Children's Day observed by UNICEF?

Ans ✓ 1. 20 November

✗ 2. 27 October

✗ 3. 14 December

✗ 4. 14 November

Question ID : **16794316983**

Q.5 Who won the 2018 Pulitzer Prize in the Poetry category?

Ans ✗ 1.

Kamla (Surraiya) Das for The Looking Glass

✗ 2. Patricia Smith for Incendiary Art

✓ 3.

Frank Bidart for Half Light: Collected Poems

✗ 4. Evie Shockley for Semiautomatic

Question ID : **16794316986**

Q.6 Where is the famous Sun temple located?

Ans ✓ 1. Konark

✗ 2. Varanasi

✗ 3. Jaisalmer

✗ 4. Ujjain

Question ID : **16794316977**

Q.7 आदिल ने माइक्रोवेव ओबन में छिलकों के साथ कच्चा अंडा रखा और ओबन चालू किया। इस क्रिया का परिणाम क्या होगा?

Ans ✗ 1.

अंडा एक मिनिट में उबल कर तैयार हो जाएगा

✗ 2. अंडा जैसेसा था वैसा ही रहेगा

Question ID : **16794316982**

✗ 3. अंडा दो मिनट में ओवन में पक जाएगा।

✓ 4. अंडे के छिलके फट जाएंगे

Q.8 Who is the Head of the Government in India?

Question ID : **16794316972**

Ans
✗ 1. Speaker of Lok Sabha

✗ 2. Vice President

✗ 3. President

✓ 4. Prime Minister

Q.9 According to the Central Water Commission, on an average, floods affect _____ million hectares (mha) of land in India annually.

Question ID : **16794316970**

Ans
✗ 1. 7.5

✗ 2. 3.6

✓ 3. 67

✗ 4. 14.4

Q.10 Who was the President of Congress Session of 1924 held in Belgaum?

Question ID : **16794316969**

Ans
✓ 1. Mohandas Gandhi

✗ 2. Neelam Sanjiva Reddy

✗ 3. Abul Kalam Azad

✗ 4. Sarojini Naidu

Q.11 Who among the following founded Ramakrishna Mission to carry out humanitarian relief and social work?

Question ID : **16794316967**

Ans
✗ 1. Sri Aurobindo

✗ 2. Sister Nivedita

✓ 3. Swami Vivekananda

✗ 4. Sarada Devi

Q.12 Who was the captain of the Indian Hockey team that won the first Olympic Gold medal in Amsterdam in 1928?

Question ID : **16794316980**

Ans
✗ 1. Major Dhyan Chand

✗ 2. Sardar Singh

✗ 3. Charanjeet Singh

✓ 4. Jaipal Singh Munda

Q.13 Who is the author of the book 'The Prophet'?

Question ID : **16794316978**

Ans
✗ 1. Jalal ad-Din Muhammad Rumi

✗ 2. Rabindranath Tagore

✓ 3. Kahlil Gibran

❌ 4. Leo Tolstoy

Q.14 Where will the Summer Olympic Games 2020 be held?

Ans ❌ 1. Paris, France

❌ 2. Rio de Janeiro, Brazil

✅ 3. Tokyo, Japan

❌ 4. PyeongChang, South Korea

Q.15 What was the Infant Mortality Rate (IMR) (per 1000 live births) in 2016?

Ans ❌ 1. 21

❌ 2. 45

✅ 3. 34

❌ 4. 49

Q.16 The Hindustani vocalist, Ashwini Bhide Deshpande belongs to which one of the following gharanas?

Ans ❌ 1. Patiala

✅ 2. Jaipur-Atrauli

❌ 3. Gwalior

❌ 4. Kirana

Q.17 According to Art. 75, the council of ministers shall be collectively responsible to the:

Ans ❌ 1. Prime Minister of India

❌ 2. President of India

✅ 3. House of the People

❌ 4. Supreme Court of India

Q.18 Who among the following is the Indian-origin Chief Executive Officer (CEO) of PepsiCo who decided in August 2018 to step down as the CEO after being at the helms for 12 years?

Ans ❌ 1. Kiran Mazumadar-Shaw

❌ 2. Satya Nadella

❌ 3. Sundar Pichai

✅ 4. Indra Nooyi

Q.19 Who was posthumously awarded the prestigious Dadasaheb Phalke Award in April 2018?

Ans ❌ 1. Shashi Kapoor

❌ 2. Sridevi

❌ 3. Pran

✓ 4. Vinod Khanna

Q.20 What was the per capita income in real terms (at 2011-12 prices) during the year 2016-17?

Ans

✗ 1. ₹ 74,573

✗ 2. ₹ 1,12,835

✓ 3. ₹ 82,269

✗ 4. ₹ 1,03,870

Section : **Arithmetic Ability**

Q.1 A solid cylinder of boys radius 8 cm and height 10 cm is melted and recasted into a cone of base radius 20 cm. what is the height of the cone?

Ans

✗ 1. 14.4 cm

✓ 2. 4.8 cm

✗ 3. 10.6 cm

✗ 4. 6.6 cm

Q.2 एक व्यक्ति ने ₹ 10000 की राशि अंशत: 6% प्रतिवर्ष और शेषराशि 4% प्रतिवर्ष पर निवेश किया। यदि दोनों योजनाओं में 2 वर्ष के लिए साधारण ब्याज बराबर हैं, तो 6% प्रति वर्ष पर कितनी राशि निवेश की गई थी?

Ans

✗ 1. ₹ 3500

✗ 2. ₹ 4500

✗ 3. ₹ 3000

✓ 4. ₹ 4000

Q.3 एक व्यक्ति 75 km/h की गति से 30 किमी की दूरी और 60 km/h की गति 50 किमी की दूरी तय करता है। पूरी यात्रा के लिए उसकी औसत गति क्या है? (एक दशमलव स्थान तक सही)

Ans

✓ 1. 64.9 km/h

✗ 2. 62.8 km/h

✗ 3. 63.6 km/h

✗ 4. 67.5 km/h

Q.4 एक व्यक्ति ने ₹ 580 में एक वस्तु खरीदी और इसकी मरम्मत पर ₹ 120 खर्च किये। वह कीमत इस तरह से अंकित करता है कि अंकित कीमत पर 20% की छूट देने के बाद, उसे 28% लाभ मिलता है। सामग्री की अंकित कीमत क्या है?

Ans

✗ 1. ₹ 800

✗ 2. ₹ 1180

✗ 3. ₹ 1080

✓ 4. ₹ 1120

Q.5 एक काम को A और B एक साथ 36 घंटे में, B और C एक साथ 45 घंटे में तथा C और A, 60 घंटे में पूरा कर सकते हैं। कितने दिनों में B, 60% काम को पूरा करेगा?

Ans

✗ 1. 62

✗ 2. 54

✗ 3. 58

✔ 4. 60

Q.6 35 वस्तुओं को बेचने पर, एक व्यक्ति को 5 वस्तुओं की बिक्री मूल्य का लाभ होता है। उसका लाभ प्रतिशत क्या है?

Ans

✘ 1. $\frac{25}{2}\%$

✘ 2. $\frac{10}{3}\%$

✔ 3. $\frac{50}{3}\%$

✘ 4. $\frac{100}{7}\%$

Q.7 दो पाइप A और B एक खाली टंकी को क्रमशः 8 घंटे और 12 घंटे में भर सकते हैं। एक तीसरा पाइप C, भरी हुई टंकी को 15 घंटे में खाली कर सकता है। टंकी खाली होने पर पाइप A और B खोले जाते हैं और 2 घंटे बाद पाइप A बंद किया जाता है और पाइप C खोला जाता है। कितने घंटों में, टंकी पूरी तरह से भर जाएगी?

Ans

✘ 1. 5

✔ 2. $\frac{53}{9}$

✘ 3. $\frac{17}{3}$

✘ 4. $\frac{52}{9}$

Q.8 दो पात्र A और B में 2 : 3 और 4 : 5 के अनुपात में स्पिरिट और पानी है। उनकी सामग्रियों को 5 : 7 के अनुपात में मिश्रित किया जाता है। नए मिश्रण में स्पिरिट और पानी का अनुपात क्या है?

Ans

✘ 1. 4 : 5

✘ 2. 3 : 7

✔ 3. 3 : 4

✘ 4. 2 : 5

Q.9 In a class, 60% are girls and 40% are boys. If in a test 70% girls and 60% boys passed in the test, what percent of students passed?

Ans

✘ 1. 68%

✘ 2. 56%

✔ 3. 66%

✘ 4. 70%

Q.10 What is the least number which when divided by 21, 28, 36, and 45, leaves remainder 5 in each case and is divisible by 13?

Ans

✘ 1. 5070

✘ 2. 4940

✔ 3. 5044

✘ 4. 4966

Q.11 The sides of a triangular plot are 26 m, 28 m, and 30 m. what is the cost of levelling the plot at the rate of ₹ 15/m²?

Ans

✔ 1. ₹ 5040

✘ 2. ₹ 4960

✗ 3. ₹ 4080

✗ 4. ₹ 3520

Q.12 यदि तीन संख्याओं का अनुपात A, B और C = 5 6 : 8 है। यदि A में 150% की वृद्धि हुई है, B में 60% की वृद्धि हुई है और C में 20% की कमी आई है, तो इस प्रकार प्राप्त नई संख्याओं का अनुपात क्या है?

Question ID : **16794316991**

Ans

✗ 1. 25 : 16 : 8

✗ 2. 25 : 25 : 16

✗ 3. 25 : 16 : 24

✔ 4. 125 : 96 : 64

Q.13 The HCF of two numbers is 16 and their product is 1024. What is sum of their reciprocals?

Question ID : **16794316990**

Ans

✗ 1. $\dfrac{7}{1024}$

✗ 2. $\dfrac{5}{1024}$

✗ 3. $\dfrac{7}{64}$

✔ 4. $\dfrac{5}{64}$

Q.14

The value of $\dfrac{1\frac{1}{8}+\left[\frac{1}{12}\div\frac{4}{9}-\left(\frac{1}{2}-\frac{5}{8}\right)\right]}{\left[\frac{1}{6}-\left(1\frac{1}{4}-\frac{3}{2}\right)\right]\div\frac{2}{3}-\frac{1}{\sqrt{16}}}$ is equal to:

Question ID : **16794316988**

Ans

✗ 1. $\dfrac{17}{3}$

✗ 2. $\dfrac{23}{10}$

✗ 3. $\dfrac{22}{3}$

✔ 4. $\dfrac{23}{6}$

Q.15

The value of $\dfrac{(263)^3-(527)^3+(264)^3}{26.3\times52.7\times158.4}$ is equal to:

Question ID : **16794316987**

Ans

✗ 1. -1000

✔ 2. -500

✗ 3. 1000

✗ 4. 500

Q.16 स्थिर पानी में नाव की गति और धारा की गति का अनुपात 5 : 1 है यह 2 घंटे 3 मिनट में 9 km प्रतिकूल की जा सकती है और मूल बिंदु पर वापस आ सकती है। km/h में धारा की गति क्या है?

Question ID : **16794317001**

Ans

✗ 1. 2.5

✗ 2. 1

✗ 3. 2

✓ 4. 1.5

Q.17 ₹ 12,000 की राशि 5 मासिक आधार पर चक्रवृद्धित 12% प्रति वर्ष की ब्याज दर पर 15 महीने के लिए निवेश की जाती है। चक्रवृद्धि ब्याज क्या होगा?

Ans ✗ 1. ₹ 2178.50

✓ 2. ₹ 1891.50

✗ 3. ₹ 6250.50

✗ 4. ₹ 1800

Comprehension:

निम्नलिखित तालिका 6 महीने की अवधि में बेचे जाने वाले मोबाइल फोन की संख्या दर्शाती है। तालिका पढ़ें और निम्नलिखित प्रश्नों का उत्तर दें:

महीने	जनवरी	फ़रवरी	मार्च	अप्रैल	मई	जून
बेचे गए कुल मोबाइल फोन	480	330	360	285	600	375

SubQuestion No : 18

Q.18 जनवरी, मार्च और मई के दौरान बेचे गए मोबाइल फोन 6 महीने के दौरान बेचे गए फोन का कुल प्रतिशत क्या है? (एक दशमलव स्थान तक सही)?

Ans ✗ 1. 60.8°

✗ 2. 60.6°

✓ 3. 59.3°

✗ 4. 59.8°

Comprehension:

The following table gives the number of mobile phones sold over a period of 6 months. Read the table and answer the following questions:

Months	Jan	Feb	March	April	May	June
No of mobile phones sold	480	330	360	285	600	375

SubQuestion No : 19

Q.19

If the information given in the table is represented as pie-chart, what is the central angle of the sector representing sale in the month of May to nearest complete degree?

Ans ✗ 1. 91

✗ 2. 93

✔ 3. 89

✗ 4. 87

Comprehension:

The following table gives the number of mobile phones sold over a period of 6 months. Read the table and answer the following questions:

Months	Jan	Feb	March	April	May	June
No of mobile phones sold	480	330	360	285	600	375

SubQuestion No : 20

Q.20 What is the average number of mobile phones sold per month?

Ans ✔ 1. 405

✗ 2. 390

✗ 3. 395

✗ 4. 410

Section : **General English**

Q.1 Select the most appropriate option to fill in the blank.

That student is quiet weak _____ Mathematics.

Ans ✗ 1. for

✗ 2. on

✔ 3. in

✗ 4. of

Q.2 Select the most appropriate option to fill in the blank.

I posted the parcel _____ the main Post Office _____ Tuesday.

Ans ✗ 1. on ; on

✔ 2. at ; on

✗ 3. at ; in

✗ 4. in ; at

Q.3 In the following sentence four words/phrases have been underlined. One of them is incorrect. Choose the incorrect word/phrase from the given options.

Question ID : **16794317022**

Heart diseases normally results in damage to the heart muscle, the valves or the pace maker.

Ans ✗ 1. to the heart muscle

✔ 2. results

✗ 3. normally

✗ 4. or the pace maker

Q.4 Select the synonym of the given word:

Question ID : **16794317017**

ACCUMULATE

Ans ✗ 1. assume

✗ 2. affect

✔ 3. amass

✗ 4. assimilate

Q.5 Arrange parts of the sentence in meaningful and grammatically correct order.

Question ID : **16794317021**

A. famous for its one-horned rhino
B. assam's Kaziranga National Park
C. hi-tech drones for capturing video footages
D. is all set to boost vigilance with a new set of
E. of parts of jungle not accessible on foot

Ans ✔ 1. BADCE

✗ 2. BACDE

✗ 3. BDAEC

✗ 4. BDCEA

Q.6 Select the most appropriate option to fill in the blank.

Question ID : **16794317011**

If we _____ the match yesterday, we would have taken the trophy home.

Ans ✗ 1. have won

✗ 2. win

✗ 3. are winning

✔ 4. had won

Q.7 Select the most appropriate option to fill in the blank.

Question ID : **16794317013**

_____ they have new washing machine, their clothes are still washed By hand.

Ans ✗ 1. Because

✗ 2. In case

✔ 3. Although

✗ 4. Whether

Q.8

Question ID : **16794317010**

Select the most appropriate option to fill in the blank.

That dog _____ dangerous. Keep away from him.

Ans
✗ 1. has looked
✗ 2. has been looking
✔ 3. looks
✗ 4. looked

Q.9 Select the sentence structure that is grammatically correct.

Ans
✗ 1. He has finished the just job you gave him.
✔ 2. He has just finished the job you gave him.
✗ 3. He has gave the job you just finished him.
✗ 4. The job you gave him just he has finished.

Q.10 Select the most appropriate option to fill in the blank.

The dust tickled my nose _____ I sneezed.

Ans
✗ 1. or
✗ 2. but
✔ 3. so
✗ 4. and

Q.11 Select the synonym of the given word:

CONTRACT

Ans
✗ 1. expand
✗ 2. contact
✗ 3. broaden
✔ 4. shrink

Q.12 Select the most appropriate option to fill in the blank.

Losing their way in the snow and mist, they walked this way and that way the whole day long. The next day they could _____ walk.

Ans
✗ 1. normally
✗ 2. usually
✔ 3. barely
✗ 4. successfully

Q.13 Select the most appropriate option to fill in the blank.

The boys were _____ to catch the bus.

Ans
✗ 1. seeing

✗ 2. attending

✔ 3. weighting

✗ 4. playing

Q.14 Select the antonym of the given word:

RETRIEVE

Ans ✗ 1. reclaim

✗ 2. rescue

✔ 3. lose

✗ 4. find

Q.15 Select the antonym of the given word:

OFFEND

Ans ✔ 1. please

✗ 2. upset

✗ 3. excite

✗ 4. insult

Comprehension:

Read the following passage and answer the questions given after it.

The coconut oil controversy has gripped the entire nation, and **left everyone in a fix**. In a recent lecture titled 'Coconut oil and other nutritional errors', a Harvard professor Karin Michels stated that coconut oil is 'one of the worst things you can eat' and 'pure poison'. Her lecture said that coconut oil has high proportion of saturated fat, increases LDL cholesterol (bad cholesterol) levels, and enhances risk of cardiovascular disease. Ironically, in the Harvard Health Letter, a doctor at Harvard School of Public Health, Walter C Willett, had stated that 'coconut oil is not all bad' as it boosts good cholesterol (HDL).

So, there are both sides to the story. While coconut oil has natural saturated fats which increase the levels of good cholesterol in the body, it can also turn into a less harmful form of bad cholesterol. - Due to its power-packed nutritional values, coconut oil is applied on skin and hair. It is an effective moisturiser and protects against any damage. Fatty acids present in coconut oil help kill harmful pathogens, including viruses, bacteria and fungi, preventing from potential infections. Nonetheless, coconut oil is highly effective in reducing belly fat, and fights against the abdominal cavity in and around the organs. I

Polyunsaturated fatty acids (PUFAs) and monounsaturated fatty acids (MUFAs) are referred to as 'healthy fats' found in coconut oil that protect the overall health. PUFAs and MUFAs have been proven to be an essential part of a balanced diet. Including MUFAs in your diet can help lower cholesterol levels and reduce the risk of heart disease. MUFAs are composed of high vitamin E and antioxidant content that keeps the body healthy by protecting cells from damaging.

When eaten in moderation, PUFAs can help lower your cholesterol levels and reduce your risk of heart disease, just like MUFAs. PUFAs can be divided into two categories - omega-3 fatty acids and omega-6 fatty acids - that play an important role in body growth and development, proper brain functioning, regulating metabolism, stimulating hair growth, and keeping reproductive system healthy. The key to getting most of these benefits is to consume both PUFAs and MUFAs in moderation as part of a balanced diet.

According to the Coconut Research Center, coconut oil kills the viruses that cause measles, SARS, influenza, herpes, hepatitis, and other sombre health issues. It also kills bacteria that cause urinary tract infections, ulcers, pneumonia, throat infections, and gonorrhoea. Moreover, MCTs found in coconut oil improves the cognitive abilities of Alzheimer's patients as it is an excellent source of ketone (associated with improving memory). Conclusion: Coconut oil has been regarded as one of the healthiest oils since ancient times. However, keeping in mind recent findings, we should try to incorporate coconut oil in moderation (a couple of tablespoons a day) so that we can derive its numerous health benefits.

SubQuestion No : 16

Q.16 Which of the following is NOT an example of coconut oil's power-packed nutritional value?

Ans ✔ 1.

Coconut oil increases LDL cholesterol levels, and enhances risk of cardiovascular disease

✘ 2. MCTs in coconut oil, an excellent source of ketone, improve the cognitive abilities of Alzheimer's patients.

✘ 3. Fatty acids present in coconut oil help kill harmful pathogens preventing from potential infections.

✘ 4.

Coconut oil kills the viruses that cause measles, SARS, influenza, herpes, hepatitis etc.

Comprehension:

Read the following passage and answer the questions given after it.

The coconut oil controversy has gripped the entire nation, and **left everyone in a fix**. In a recent lecture titled 'Coconut oil and other nutritional errors', a Harvard professor Karin Michels stated that coconut oil is 'one of the worst things you can eat' and 'pure poison'. Her lecture said that coconut oil has high proportion of saturated fat, increases LDL cholesterol (bad cholesterol) levels, and enhances risk of cardiovascular disease. Ironically, in the Harvard Health Letter, a doctor at Harvard School of Public Health, Walter C Willett, had stated that 'coconut oil is not all bad' as it boosts good cholesterol (HDL).

So, there are both sides to the story. While coconut oil has natural saturated fats which increase the levels of good cholesterol in the body, it can also turn into a less harmful form of bad cholesterol. - Due to its power-packed nutritional values, coconut oil is applied on skin and hair. It is an effective moisturiser and protects against any damage. Fatty acids present in coconut oil help kill harmful pathogens, including viruses, bacteria and fungi, preventing from potential infections. Nonetheless, coconut oil is highly effective in reducing belly fat, and fights against the abdominal cavity in and around the organs. I

Polyunsaturated fatty acids (PUFAs) and monounsaturated fatty acids (MUFAs) are referred to as 'healthy fats' found in coconut oil that protect the overall health. PUFAs and MUFAs have been proven to be an essential part of a balanced diet. Including MUFAs in your diet can help lower cholesterol levels and reduce the risk of heart disease. MUFAs are composed of high vitamin E and antioxidant content that keeps the body healthy by protecting cells from damaging.

When eaten in moderation, PUFAs can help lower your cholesterol levels and reduce your risk of heart disease, just like MUFAs. PUFAs can be divided into two categories - omega-3 fatty acids and omega-6 fatty acids - that play an important role in body growth and development, proper brain functioning, regulating metabolism, stimulating hair growth, and keeping reproductive system healthy. The key to getting most of these benefits is to consume both PUFAs and MUFAs in moderation as part of a balanced diet.

According to the Coconut Research Center, coconut oil kills the viruses that cause measles, SARS, influenza, herpes, hepatitis, and other sombre health issues. It also kills bacteria that cause urinary tract infections, ulcers, pneumonia, throat infections, and gonorrhoea. Moreover, MCTs found in coconut oil improves the cognitive abilities of Alzheimer's patients as it is an excellent source of ketone (associated with improving memory). Conclusion: Coconut oil has been regarded as one of the healthiest oils since ancient times. However, keeping in mind recent findings, we should try to incorporate coconut oil in moderation (a couple of tablespoons a day) so that we can derive its numerous health benefits.

SubQuestion No : 17

Q.17 What is the coconut oil controversy?

Ans

✗ 1. Coconut oil has been regarded as one of the healthiest oils since ancient times and is used for cooking.

✗ 2. While coconut oil increases the levels of good cholesterol in the body, it can also turn into a less harmful form of bad cholesterol.

✗ 3. Coconut oil has both Polyunsaturated fatty acids (PUFAs) and monounsaturated fatty acids (MUFAs).

✓ 4. One Harvard research says Coconut oil is pure poison whereas the other study says 'it is not all bad'.

Comprehension:

Read the following passage and answer the questions given after it.

The coconut oil controversy has gripped the entire nation, and **left everyone in a fix**. In a recent lecture titled 'Coconut oil and other nutritional errors', a Harvard professor Karin Michels stated that coconut oil is 'one of the worst things you can eat' and 'pure poison'. Her lecture said that coconut oil has high proportion of saturated fat, increases LDL cholesterol (bad cholesterol) levels, and enhances risk of cardiovascular disease. Ironically, in the Harvard Health Letter, a doctor at Harvard School of Public Health, Walter C Willett, had stated that 'coconut oil is not all bad' as it boosts good cholesterol (HDL).

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SubQuestion No : 18

Q.18 What helps in keeping the body healthy by protecting cells from damaging?

Ans ✗ 1. antioxidants and pathogens

✗ 2. pathogens and fatty acids

✗ 3. saturated fats and MCTs

✔ 4. vitamin E and antioxidants

Comprehension:

Read the following passage and answer the questions given after it.

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SubQuestion No : 19

Q.19 Which of the following disease is caused by virus?

Ans ✗ 1. pneumonia

✗ 2. ulcers

✗ 3. throat infections

✓ 4. herpes

Comprehension:

Read the following passage and answer the questions given after it.

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Q.20 Read the statement from the passage: The coconut oil controversy has gripped the entire nation, and **left everyone in a fix**. What is the most appropriate piece of text that can replace the bold part?

Ans ✗ 1. To fix an appointment with someone

✓ 2. To be in a difficult or embarrassing situation

✗ 3. To be in a losing situation

✗ 4. To be in a winning situation

Section : **General Hindi**

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

शुक्लोत्तर समालोचकों ने शुक्ल जी का महत्व स्वीकार करते हुए भी उनसे कुछ महत्वपूर्ण मुद्दों पर मतभेद प्रकट किया। पं. नन्ददुलारे वाजपेयी ने हिन्दी साहित्य बीसवीं शताब्दी में शुक्ल जी के छायावाद रहस्यवाद विषयक विचारों की आलोचना की। वाजपेयी जी के अनुसार स्थूल व्यवहारवाद को निस्सीम बतलाकर और रहस्यवाद की कनकौए से तुलना कर विद्वान शुक्ल जी ने नवीन कविता के साथ अन्याय किया है। वाजपेयी जी का विचार है कि मनुष्य के अध्यात्म पक्ष का संपूर्ण निरूपण इस प्रकार की कविता की सीमा के अंतर्गत है। रहस्यवाद को कविता के क्षेत्र से खारिज नहीं कर सकते। वे छायावाद के प्रारंभिक और समर्थक थे। उन्होंने छायावाद के आध्यात्मिक पक्ष को शिकार करते हुए भी यह प्रकट किया की छायावाद के आध्यात्मिक पक्ष को स्वीकार करते हुए भी यह प्रकट किया कि छायावाद की मुख्य प्रेरणा धार्मिक न होकर मानवीय और सांस्कृतिक है।

SubQuestion No : 1

Q.1 वाजपेयी जी के अनुसार छायावाद की मुख्य प्रेरणा है:

Ans ✗ 1. आर्थिक

✓ 2. सांस्कृतिक

✗ 3. राजनीतिक

✗ 4. धार्मिक

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 2

Q.2 गद्यांश में उल्लिखित नवीन कविता का आशय है:

Question ID : **16794317034**

Ans ✗ 1. प्रगतिवाद

✔ 2. छायावाद

✗ 3. प्रयोगवाद

✗ 4. नयी कविता

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 3

Q.3 नन्ददुलारे वाजपेयी ने शुक्ल जी के किन विचारों की आलोचना की?

Question ID : **16794317031**

Ans ✔ 1. छायावाद-रहस्यवाद

✘ 2. छायावाद-प्रगतिवाद

✘ 3. छायावाद-प्रयोगवाद

✘ 4. रहस्यवाद-प्रयोगवाद

Comprehension:

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 4

Q.4 नन्ददुलारे वाजपेयी किसके प्रारंभिक और समर्थक थे?

Ans ✔ 1. छायावाद

✘ 2. प्रयोगवाद

✘ 3. प्रगतिवाद

✘ 4. नयी कविता

Comprehension:

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SubQuestion No : 5

Q.5 'हिन्दी साहित्य: बीसवीं शताब्दी' किसकी पुस्तक है?

Question ID : **16794317030**

Ans ✔ 1. नन्ददुलारे वाजपेयी

✗ 2. हजारीप्रसाद द्विवेदी

✗ 3. रामचन्द्र शुक्ल

✗ 4. रामविलास शर्मा

Q.6 निम्न में शुद्ध वर्तनी वाला शब्द है:

Question ID : **16794317048**

Ans ✗ 1. सर्वजनिक

✗ 2. सार्वजनीक

✗ 3. सर्वजनीक

✔ 4. सार्वजनिक
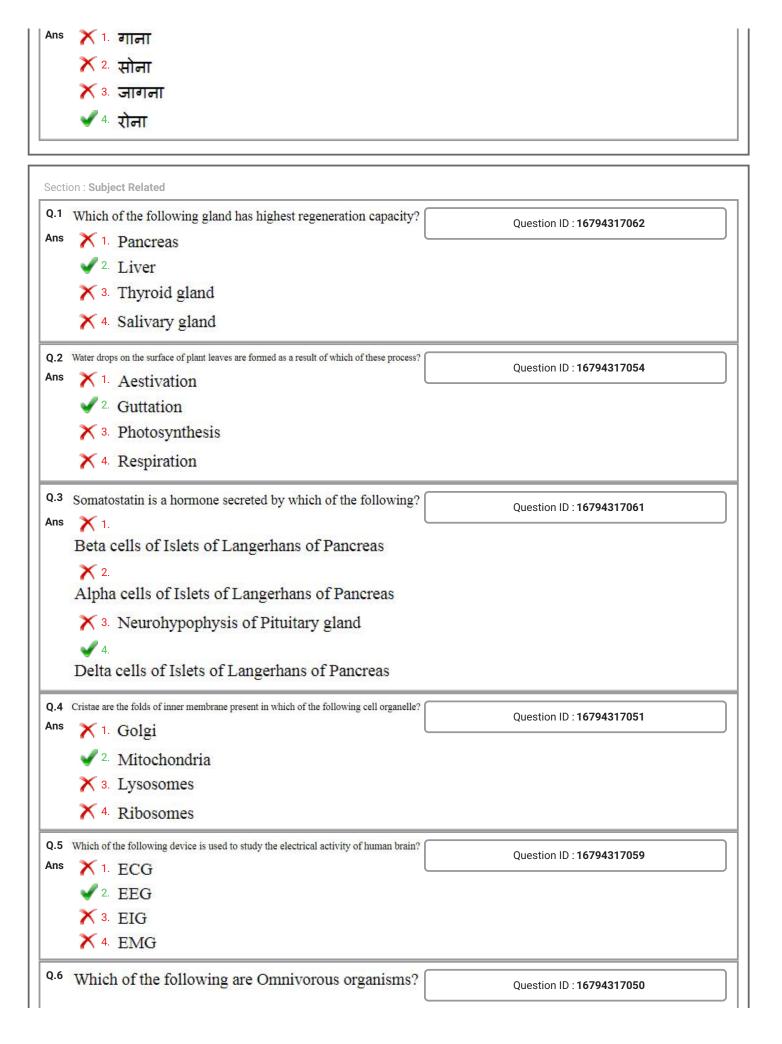
Q.7 'विष्णु' का पर्यायवाची नहीं है:

Question ID : **16794317045**

Ans ✗ 1. गोविंद

✔ 2. चतुरानन

✗ 3. केशव

✗ 4. माधव

Q.8 'अभिभावक' में उपसर्ग है:

Ans
- ✗ 1. वक
- ✔ 2. अभि
- ✗ 3. अ
- ✗ 4. भावक

Q.9 निम्न में कौन सा शब्द स्त्रीलिंग है?

Ans
- ✗ 1. अपराध
- ✔ 2. आत्मा
- ✗ 3. अमृत
- ✗ 4. अपहरण

Q.10 'परीक्षा की प्रणाली बदलना पड़ेगी।' वाक्य में अशुद्ध अंश है:

Ans
- ✗ 1. परीक्षा की
- ✗ 2. पड़ेगी।
- ✔ 3. बदलना
- ✗ 4. प्रणाली

Q.11 'मेधावी' में प्रत्यय है:

Ans
- ✔ 1. वी
- ✗ 2. ई
- ✗ 3. आवी
- ✗ 4. मेधा

Q.12 निम्नलिखित में कौन सा शब्द तद्भव है?

Ans
- ✗ 1. श्यामल
- ✗ 2. श्वास
- ✔ 3. साग
- ✗ 4. संध्या

Q.13 निम्नलिखित में जातिवाचक संज्ञा कौन सी है?

Ans
- ✗ 1. दासत्व
- ✗ 2. गुच्छा
- ✗ 3. काशी
- ✔ 4. नदी

Q.14 'जिसका संबंध संसार के विषयों से हो' के लिए एक शब्द होगा:

Ans

✔ 1. सांसारिक
✘ 2. पारिवारिक
✘ 3. सामाजिक
✘ 4. आर्थिक

Q.15 'मनस्ताप' का संधि विच्छेद होगा:

Question ID : **16794317040**

Ans ✘ 1. मनस + ताप

✘ 2. मन + ताप

✘ 3. मन + स्ताप

✔ 4. मन: + ताप

Q.16 निम्न में कौन सी प्रेरणार्थक क्रिया है?

Question ID : **16794317039**

Ans ✘ 1. पढ़ना

✔ 2. जगाना

✘ 3. सुनना

✘ 4. लेटना

Q.17 निम्नलिखित में से कौन सा शब्द तत्सम है?

Question ID : **16794317035**

Ans ✔ 1. सुगंध

✘ 2. सौत

✘ 3. सौ

✘ 4. सोना

Q.18 निम्न में से कौन सा शब्द अव्यय है?

Question ID : **16794317038**

Ans ✘ 1. भला

✘ 2. वर्तमान

✔ 3. उधर

✘ 4. भारी

Q.19 'बंदरगाह' में कौन सा समास है?

Question ID : **16794317041**

Ans ✘ 1. द्विगु

✔ 2. तत्पुरुष

✘ 3. अव्ययीभाव

✘ 4. द्वंद्व

Q.20 'हँसना' का विलोम होगा:

Question ID : **16794317046**

Ans
- ✗ 1. गाना
- ✗ 2. सोना
- ✗ 3. जागना
- ✔ 4. रोना

Section : **Subject Related**

Q.1 Which of the following gland has highest regeneration capacity?

Question ID : **16794317062**

Ans
- ✗ 1. Pancreas
- ✔ 2. Liver
- ✗ 3. Thyroid gland
- ✗ 4. Salivary gland

Q.2 Water drops on the surface of plant leaves are formed as a result of which of these process?

Question ID : **16794317054**

Ans
- ✗ 1. Aestivation
- ✔ 2. Guttation
- ✗ 3. Photosynthesis
- ✗ 4. Respiration

Q.3 Somatostatin is a hormone secreted by which of the following?

Question ID : **16794317061**

Ans
- ✗ 1.
  Beta cells of Islets of Langerhans of Pancreas
- ✗ 2.
  Alpha cells of Islets of Langerhans of Pancreas
- ✗ 3. Neurohypophysis of Pituitary gland
- ✔ 4.
  Delta cells of Islets of Langerhans of Pancreas

Q.4 Cristae are the folds of inner membrane present in which of the following cell organelle?

Question ID : **16794317051**

Ans
- ✗ 1. Golgi
- ✔ 2. Mitochondria
- ✗ 3. Lysosomes
- ✗ 4. Ribosomes

Q.5 Which of the following device is used to study the electrical activity of human brain?

Question ID : **16794317059**

Ans
- ✗ 1. ECG
- ✔ 2. EEG
- ✗ 3. EIG
- ✗ 4. EMG

Q.6 Which of the following are Omnivorous organisms?

Question ID : **16794317050**

Ans
- ✗ 1. Jackals
- ✗ 2. Tigers
- ✔ 3. Human beings
- ✗ 4. Rabbits

Q.7 Fertilization in human female occurs in which of the following parts?

Question ID : **16794317065**

Ans
- ✗ 1. Ovaries
- ✗ 2. Uterus
- ✗ 3. Cervix
- ✔ 4. Fallopian tube

Q.8 Which of the following Vertebrates are essentially Ureotelic?

Question ID : **16794317055**

Ans
- ✗ 1. Aves
- ✗ 2. Fishes
- ✔ 3. Mammals
- ✗ 4. Reptiles

Q.9 Which of the following is known as the middle man of the body?

Question ID : **16794317052**

Ans
- ✔ 1. Lymph
- ✗ 2. Nerves
- ✗ 3. Veins
- ✗ 4. Blood

Q.10 Glucocorticoids are secreted by which of the following?

Question ID : **16794317063**

Ans
- ✔ 1. Adrenal Cortex
- ✗ 2. Posterior Pituitary
- ✗ 3. Adrenal medulla
- ✗ 4. Anterior Pituitary

Q.11 Parkinson's disease affects which of the following organ in human beings?

Question ID : **16794317058**

Ans
- ✗ 1. Lungs
- ✔ 2. Brain
- ✗ 3. Heart
- ✗ 4. Kidneys

Q.12 Which of the following hormones is released during Parturition in female human beings?

Question ID : **16794317066**

Ans
- ✗ 1. Prolactin
- ✔ 2. Oxytocin
- ✗ 3. Glucagon
- ✗ 4. Estrogen

Q.13 Which of the following Cranial nerve innervates the Tongue?

Ans
- ✗ 1. X
- ✗ 2. III
- ✗ 3. VII
- ✓ 4. IX

Q.14 In Genetic code, the codon GUG codes for which amino acid?

Ans
- ✗ 1. Glycine
- ✓ 2. Valine
- ✗ 3. Lysine
- ✗ 4. Methionine

Q.15 The hair pin like structure which is a part of Nephron is:

Ans
- ✓ 1. Loop of Henley
- ✗ 2. Proximal tubule
- ✗ 3. Collecting tubule
- ✗ 4. Distal tubule

Q.16 Which of the following statement is false about certain phenomena in plants?

Ans
- ✓ 1. Upward growth of plant roots is seen in positive Geotropism
- ✗ 2. Respiration adds CO_2 to the atmosphere
- ✗ 3. Photosynthesis adds Oxygen to the atmosphere
- ✗ 4. Upward growth of plant shoots is seen in Negative Geotropism

Q.17 Regeneration is seen in which of the following organisms?

Ans
- ✗ 1. Ascaris
- ✗ 2. Amoeba
- ✗ 3. Hydra
- ✓ 4. Planaria

Q.18 Miller-Urey experiment is associated with which of the following?

Ans
- ✗ 1. Taxonomy
- ✗ 2. Genetics
- ✗ 3. Anatomy
- ✓ 4. Evolution

Q.19 Which of the following blood vessels supply the blood to the Liver?

Ans
- ✗ 1. Pulmonary arteries

✔ 2. Hepatic arteries

✘ 3. Coronary arteries

✘ 4. Carotid arteries

Q.20 What is the approximate total number of nucleotides in a Human genome?

Question ID : **16794317067**

Ans ✔ 1. 3 billion

✘ 2. 1 billion

✘ 3. 3 million

✘ 4. 10 million

Section : **Subject Related**

Q.1 Itai-Itai disease is caused due to which of the following pollutant?

Question ID : **16794317081**

Ans ✘ 1. Lead

✔ 2. Cadmium

✘ 3. Silver

✘ 4. Mercury

Q.2 The World Wild life day is observed on which date?

Question ID : **16794317086**

Ans ✘ 1. 5th January

✘ 2. 5th June

✔ 3. 3rd March

✘ 4. 15th October

Q.3 Where was the COP 23 of UNFCCC held in 2017?

Question ID : **16794317073**

Ans ✘ 1. India

✘ 2. USA

✘ 3. France

✔ 4. Germany

Q.4 The maintenance of equilibrium in an Ecosystem is known as:

Question ID : **16794317074**

Ans ✔ 1. Ecological balance

✘ 2. Ecosphere

✘ 3. Ecological niche

✘ 4. Ecotone

Q.5 Where are the headquarters of International Union for Conservation of Nature and Natural resources (IUCN) located?

Question ID : **16794317085**

Ans ✘ 1. Paris

✔ 2. Switzerland

✘ 3. New York

✗ 4. London

Q.6 Tonoplast is a membrane that surrounds which cell organelle?

Question ID : **16794317083**

Ans ✗ 1. Ribosomes

✗ 2. Plastids

✔ 3. Vacuoles

✗ 4. Lysosomes

Q.7 Which of the following is a Conventional source of energy?

Question ID : **16794317077**

Ans ✗ 1. Wind

✗ 2. Sunlight

✔ 3. LPG

✗ 4. Tide

Q.8 Which of the following ecological pyramid is always upright?

Question ID : **16794317076**

Ans ✗ 1. Pyramid of bio-mass

✔ 2. Pyramid of energy

✗ 3. Pyramid of numbers

✗ 4. Pyramid of detrivores

Q.9 Which of the following global convention was formed to regulate the import and export of hazardous chemicals?

Question ID : **16794317084**

Ans ✗ 1. Montreal protocol

✗ 2. Tokyo convention

✗ 3. Kyoto protocol

✔ 4. Rotterdam convention

Q.10 Which of the following is an example of Mutualism?

Question ID : **16794317078**

Ans ✗ 1. Barnacles and Whales

✗ 2. Orchids and large trees

✔ 3. Algae and Fungi

✗ 4. Sea anemone and crab

Q.11 Which of the following disease is caused due to contamination of drinking water?

Question ID : **16794317082**

Ans ✔ 1. Typhoid

✗ 2. T.B

✗ 3. HIV

✗ 4. Leprosy

Q.12 Eichornia can be classified under which of the following type of plants?

Question ID : **16794317075**

Ans ✗ 1. Xerophytes

✗ 2. Epiphytes

✗ 3. Halophytes

✔ 4. Hydrophytes

Q.13 Babesia divergens in cattle is transmitted through which of the following?

Question ID : **16794317088**

Ans ✗ 1. Mosquito

✗ 2. House fly

✗ 3. Pigs

✔ 4. Ticks

Q.14 Which of the following is a Primary Consumer in an aquatic food chain?

Question ID : **16794317070**

Ans ✗ 1. Algae

✗ 2. Phytoplankton

✔ 3. Zooplanktons

✗ 4. Sharks

Q.15 The Chemical distinction between two adjacent Ecosystems is known as?

Question ID : **16794317071**

Ans ✔ 1. Ecocline

✗ 2. Ecotone

✗ 3. Biome

✗ 4. Ecosphere

Q.16 Which of the following pollutant is a component of Acid rains?

Question ID : **16794317080**

Ans ✗ 1. HCl

✔ 2. HNO_3

✗ 3. HCHO

✗ 4. $HCOO_3$

Q.17 निम्नलिखित में से कौन सी गाय का विदेशी नस्ल है?

Question ID : **16794317072**

Ans ✗ 1. साहीवाल

✗ 2. फ्रीशवाल

✗ 3. मुर्रा

✔ 4. जर्सी

Q.18 Rearing of Earth worms is associated with which of the following?

Question ID : **16794317087**

Ans ✔ 1. Vermiculture

✗ 2. Sericulture

✗ 3. Aquaculture

✗ 4. Agriculture

Q.19

Which of the following is fluid type of tissue?

Ans ✗ 1. Cartilage

✗ 2. Epithelium

✗ 3. Bone

✔ 4. Blood

Q.20 Blast is the diseases of which crop?

Ans ✗ 1. Sugar cane

✔ 2. Paddy

✗ 3. Wheat

✗ 4. Cotten

Section : **Subject Related**

Q.1 Identify the Conjugate base of NH_3.

Ans ✗ 1. NH^+_4

✗ 2. N_2H_4

✗ 3. NH_2OH

✔ 4. NH^-_2

Q.2 $CH_3COOH \xrightarrow{LiAlH_4} A \xrightarrow{PCl_5} B \xrightarrow{alc.KOH} C$ Homologue of 'C' in the above reaction is:

Ans ✗ 1. C_2H_4

✗ 2. C_2H_5CHO

✔ 3. C_3C_6

✗ 4. C_2H_2

Q.3 The IUPAC name of the compound $CH_2 = CH - CH_2 - CH_2 - CH_2 - C = CH$ is:

Ans ✗ 1. Hept-1-yne-1-ene

✗ 2. 1, 6-heptynene

✔ 3. Hept-1-ene-6-yne

✗ 4. 1, 6-Heptenyne

Q.4 The wave number of the limiting line of the series (visible) in hydrogen spectrum is:

Ans ✗ 1. $12, 186 \text{ cm}^{-1}$

✔ 2. $27, 419 \text{ cm}^{-1}$

✗ 3. $1,09,677 \text{ cm}^{-1}$

✗ 4. $15, 233 \text{ cm}^{-1}$

Q.5 Identify the Incorrect statement among the following.

Question ID : **16794317103**

Ans ✗ 1.

In froth flotation process for the purification of ore, ore particles float on water as surface is wetted by pine oil

✔ 2.

Silica is used as flux in the metallurgy of iron

✗ 3.

In zone refining method molten zone containing more impurities than original metal

✗ 4. Zr & Ti are purified by Van Arkel method

Q.6 Henry's law is not applicable if:

Question ID : **16794317091**

Ans ✔ 1. Pressure of the gas is high

✗ 2. Gas does not react with solvent

✗ 3.

The gas does not undergo dissociation or association

✗ 4. Temperature is high

Q.7 An amphoteric oxide of a metalloid present in 15th group. The possible electronic configuration of that metalloid is:

Question ID : **16794317095**

Ans ✔ 1. $[Ar]3d^{10}4s^24p^3$

✗ 2. $[He]2s^22p^3$

✗ 3. $[Ne]3s^23p^3$

✗ 4. $[Xe]4f^{14}5d^{10}6s^26p^3$

Q.8 Leaching method is suitable for the concentration of the following ore:

Question ID : **16794317102**

Ans ✗ 1. Calamine

✗ 2. Cinnabar

✗ 3. Cassiterite

✔ 4. Argentite

Q.9 $Ag^{+2} + Ag \rightarrow 2Ag^+$ is an example of:

Question ID : **16794317101**

Ans ✗ 1. Precipitation reaction

✗ 2. Disproportionation reaction

✔ 3. Comproportionation reaction

✗ 4. Displacement reaction

Q.10 The correct order of electronegativity among the following is:

Question ID : **16794317096**

Ans ✗ 1. C > Pb > Si = Ge = Sn

✗ 2. N > P > As > Sb

✔ 3. O > S > Se > Te > Po

✗ 4. B > Tl > In > Ga > Al

Q.11 Solubility of potassium chloride in water is due to:

Question ID : **16794317090**

Ans

✔ 1. Ion-dipole interactions

✘ 2. London forces

✘ 3. Ion-induced dipole interactions

✘ 4. Dipole-dipole interactions

Q.12 A radioactive nucleus (Parent) emits one alpha and two beta particles, then the daughter nucleus is:

Question ID : **16794317093**

Ans ✘ 1. Isodiapher

✘ 2. Isobar

✔ 3. Isotope

✘ 4. Isotone

Q.13 The correct order of first ionization values of Na, Mg, Al, Si in KJ mol^{-1} is:

Question ID : **16794317097**

Ans ✘ 1. 575, 496, 737, 786

✘ 2. 496, 737, 786, 575

✘ 3. 496, 575, 737, 786

✔ 4. 496, 737, 575, 786

Q.14 Identify the x, y, z in the following reaction after balancing.

Question ID : **16794317100**

$$xMnO^-_4 + yFe_3O_4H_2O \longrightarrow xMnO_2 + ZFe_2O_3 + xOH^-$$

Ans ✘ 1. 3, 4, 6

✔ 2. 2, 6, 9

✘ 3. 3, 6, 4

✘ 4. 2, 9, 6

Q.15 The reaction that takes place at anode during corrosion of Iron is:

Question ID : **16794317104**

Ans ✘ 1. $O_2 + 2H_2O + 4e^{-1} \longrightarrow 4OH^-$

✘ 2. $Fe^{+3} + e^- \longrightarrow Fe^{+2}$

✘ 3. $2Fe + O_2 + 2H_2O \longrightarrow 2Fe(OH)_2$

✔ 4. $Fe \longrightarrow Fe^{+2} + 2e^-$

Q.16 $CH_3CH_2CH_2Cl + alc.KOH \xrightarrow{\Delta} CH_3CH = CH_2 + KCl + H_2O$

Question ID : **16794317106**

Ans ✘ 1. Electrophilic substitution & elimination

✔ 2. Nucleophilic substitution & elimination

✘ 3. Only electrophilic reaction

✘ 4. Only nucleophilic reaction

Q.17 Shape & type of hybridization found in methylium (C^+H_3) ion are:

Question ID : **16794317105**

Ans ✘ 1. Trigonal pyramidal & sp^2
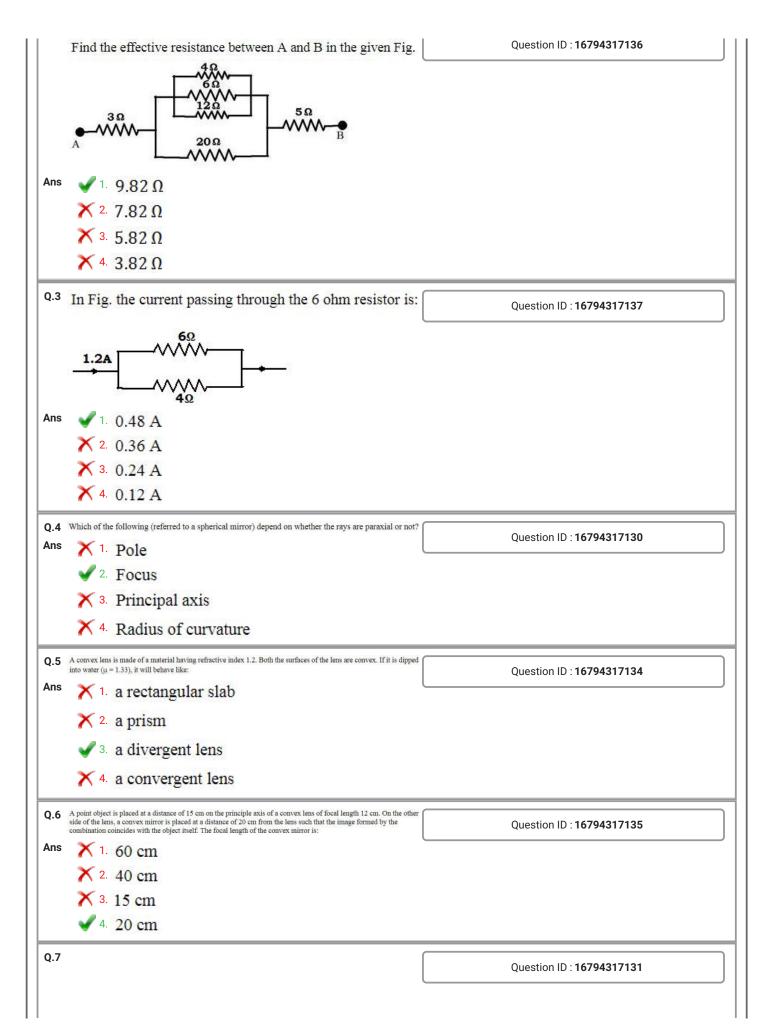
2. Trigonal planar & sp^2 ✓

✗ 3. Trigonal pyramidal & sp^3

✗ 4. Trigonal planar & sp^3

Q.18 Micelles in aqueous solution above critical micelle concentration are formed by:

Ans

✗ 1. $(NH_2)_2CO$

✓ 2. $C_{17}H_{35}COONa$

✗ 3. $HOCH_2 - CH_2OH$

✗ 4. $C_{12}H_{22}O_{11}$

Q.19 A crystalline hydrated salt on heating gives a residue 44.1% of its mass. The formula of that salt is:

Ans

✗ 1. $Na_2SO_4.7H_2O$

✓ 2. $Na_2SO_4.10H_2O$

✗ 3. $Na_2SO_4.2H_2O$

✗ 4. $Na_2SO_4.5H_2O$

Q.20 Phenolphthalein is not a suitable indicator for the titration between _____ and _____

Ans

✗ 1. $NaOH$; CH_3COOH

✗ 2. $Ba(OH)_2$; H_2SO_4

✗ 3. $NaOH$; HCl

✓ 4. Oxalic acid ; acidified not $KMnO_4$

Section : **Subject Related**

Q.1 Identify the pair of elastomers among the following.

Ans

✗ 1. Neoprene, Nylon-6

✗ 2. Nylon 6, 6 & Nylon-2 Nylon -6

✗ 3. Poly acrylonitrile, Teflon

✓ 4. Buna-N, Buna-S

Q.2 An object is 10.64 km below the sea level. A research team sends down a sonar signal to confirm this depth. After how long can it expect to get the echo? Take speed of sound in sea water = 1520 m/s.

Ans

✗ 1. 21 s

✗ 2. 7 s

✓ 3. 14 s

✗ 4. 3.5 s

Q.3 A car takes 20 s to stop after the application of the brakes. The distance it travels during this interval if brakes produce a retardation of 0.6 m/s^2 is:

Ans

✗ 1. 240 m

✓ 2. 120 m

✗ 3. 60 m

✗ 4. 360 m

Q.4 A piece of brass (alloy of copper and zinc) weighs 12.9 g in air. When completely immersed in water weighs 11.3 g. What is the mass of copper contained in the alloy? Specific gravities of copper and zinc are 8.9 and 7.1 respectively.

Ans ✗ 1. 6.7 gm

✔ 2. 7.6 gm

✗ 3. 4.6 gm

✗ 4. 5.6 gm

Q.5 The work done by a person in carrying a box of mass 15 kg through a vertical height of 5 m is 5000 J. The mass of the person is _____. Take g = 10 m/s².

Ans ✗ 1. 95 kg

✗ 2. 45 kg

✗ 3. 65 kg

✔ 4. 85 kg

Q.6 Which of the following alcohol gives turbidity very soon with Lucas reagent?

Ans ✗ 1. C_3H_7OH

✗ 2. $(CH_3)_2CHOH$

✔ 3. $(CH_3)_3COH$

✗ 4. $CH_3(CH_2)_3OH$

Q.7 Water is not polluted by:

Ans ✗ 1. Rodenticides

✗ 2. Pesticides

✔ 3. Microorganisms

✗ 4. Herbicides

Q.8 The force of attraction between two bodies separated by a distance of d is F. The distance for which the force of attraction between them is 64 F is _____.

Ans ✗ 1. d/6

✗ 2. d

✗ 3. d/4

✔ 4. d/8

Q.9 A concave mirror having a radius of curvature 40 cm is placed in front of an illuminated point source at a distance of 30 cm from it. Find the location of the image.

Ans ✗ 1.
50 cm from the mirror on the side of the object

✔ 2.
60 cm from the mirror on the side of the object

✗ 3.
30 cm from the mirror on the side of the object

✗ 4.
40 cm from the mirror on the side of the object

Q.10 What is the force required to produce an acceleration of 9.8 m/s^2 on a body of weight 9.8N? Take g = 9.8 m/s^2.

Ans ✗ 1. 1N

✓ 2. 9.8N

✗ 3. 4.9N

✗ 4. 19.6N

Q.11 Water drops fall from the nozzle of a shower 5 m high on to the floor. The drops are released at regular intervals of time such that the first drop reaches the ground when sixth drop is released from the nozzle. Taking g = 10 m/s^2. What is the height of the fourth drop from the ground?

Ans ✗ 1. 1.8 m

✓ 2. 4.2 m

✗ 3. 2.6 m

✗ 4. 3.4 m

Q.12 A boy stands 83 m in front of a high wall and then blows a whistle, calculate the time interval when he hears an echo. Speed of sound is 332 m/s.

Ans ✗ 1. 2.0 s

✓ 2. 0.5 s

✗ 3. 1.0 s

✗ 4. 2.5 s

Q.13 A sphere of mass 2 kg strikes another sphere of mass 3 kg at rest with a velocity of 5 m/s. If they move together after collision, what is their common velocity?

Ans ✗ 1. 5 m/s

✗ 2. 6 m/s

✗ 3. 1 m/s

✓ 4. 2 m/s

Q.14 Displacement-time graph of a moving body is shown in figure. How much force is acting on the body?

Ans ✗ 1. 12.5 N

✓ 2. zero

✗ 3. 25 N

✗ 4. 5 N

Q.15 The velocity-time graph for a car moving in a straight line is shown below, the total distance covered by the body is:

Ans ✓ 1. 1000 m

✗ 2. 10 m

✗ 3. 100 m

✗ 4. Zero

Q.16 Identify the Soap less soap among the following.

Question ID : **16794317114**

Ans ✗ 1. Medicated soap

✗ 2. Toilet soap

✗ 3. Glycerine soap

✔ 4. Laundry soap

Q.17 Water is mostly treated with chlorine:

Question ID : **16794317112**

Ans ✔ 1. To kill harmful micro-organisms

✗ 2. To decrease BOD

✗ 3. To decrease COD

✗ 4. To increase DO

Q.18 A ball is thrown vertically up with a velocity 20 m/s. At what height will its kinetic energy be half its original value?

Question ID : **16794317121**

Ans ✗ 1. 5 m

✗ 2. 20 m

✔ 3. 10 m

✗ 4. 15 m

Q.19 A solid weighs 50 gf in air and 44 gf in liquid of relative density 0.90 when completely immersed. Find the density of the solid.

Question ID : **16794317125**

Ans ✗ 1. 5.5 gm/cm^3

✔ 2. 7.5 gm/cm^3

✗ 3. 4.5 gm/cm^3

✗ 4. 6.5 gm/cm^3

Q.20 A car covers the first half of the distance between two places at a speed of 40 km/hr and the second half at 60 km/hr. What is the average speed of the car?

Question ID : **16794317116**

Ans ✗ 1. 50 km/hr

✔ 2. 48 km/hr

✗ 3. 100 km/hr

✗ 4. 60 km/hr

Section : **Subject Related**

Q.1 A nearsighted person cannot clearly see beyond 200 cm. Find the power of the lens needed to see objects at large distances.

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Ans ✗ 1. +0.5 D

✔ 2. −0.5 D

✗ 3. +1.5 D

✗ 4. −1.5 D

Q.2

Find the effective resistance between A and B in the given Fig.

Ans

✓ 1. 9.82 Ω

✗ 2. 7.82 Ω

✗ 3. 5.82 Ω

✗ 4. 3.82 Ω

Q.3 In Fig. the current passing through the 6 ohm resistor is:

Ans

✓ 1. 0.48 A

✗ 2. 0.36 A

✗ 3. 0.24 A

✗ 4. 0.12 A

Q.4 Which of the following (referred to a spherical mirror) depend on whether the rays are paraxial or not?

Ans ✗ 1. Pole

✓ 2. Focus

✗ 3. Principal axis

✗ 4. Radius of curvature

Q.5 A convex lens is made of a material having refractive index 1.2. Both the surfaces of the lens are convex. If it is dipped into water (μ = 1.33), it will behave like:

Ans ✗ 1. a rectangular slab

✗ 2. a prism

✓ 3. a divergent lens

✗ 4. a convergent lens

Q.6 A point object is placed at a distance of 15 cm on the principle axis of a convex lens of focal length 12 cm. On the other side of the lens, a convex mirror is placed at a distance of 20 cm from the lens such that the image formed by the combination coincides with the object itself. The focal length of the convex mirror is:

Ans ✗ 1. 60 cm

✗ 2. 40 cm

✗ 3. 15 cm

✓ 4. 20 cm

Q.7

A U - shaped wire is placed before a concave mirror having radius of curvature 20 cm as shown in figure. Find the total length of the image.

Ans
✓ 1. 10 cm
✗ 2. 40 cm
✗ 3. 20 cm
✗ 4. 30 cm

Q.8 A positively charged particle projected towards east is deflected towards north by a magnetic field. The field may be:

Ans
✗ 1. upward
✗ 2. towards west
✓ 3. downward
✗ 4. towards south

Q.9 What is speed of light in diamond of refractive index 2.4, if the velocity of light in air is 3×10^8 m/s?

Ans
✗ 1. 1.75×10^8 m/s
✗ 2. 0.25×10^8 m/s
✓ 3. 1.25×10^8 m/s
✗ 4. 2.25×10^8 m/s

Q.10 A ray of light is moving from air into medium. If the angle of incidence in air is 45° and angle of refraction is 30°, then find the refractive index of the medium.

Ans
✓ 1. $\sqrt{2}$
✗ 2. $\sqrt{5}$
✗ 3. $\sqrt{4}$
✗ 4. $\sqrt{3}$

Q.11 Self evaluation in art education refers to which of the following?

Ans
✗ 1. Teacher evaluated by the academic incharge
✗ 2. Teacher evaluating student performance
✓ 3. Teacher reflecting on his/her competency of art evaluation
✗ 4. Teacher responding to student performances

Q.12 Babri Masjid incident is a classic example of which of the following?

Ans
✗ 1. Linguism
✗ 2. Regionalism
✗ 3. Caste-ism

✔ 4. Communalism

Q.13 Human language unlike that of animals, is organized in two layers and this technically called:

Choose the right option.

Ans ✔ 1. Double articulation

✘ 2. Layered articulation

✘ 3. Dual sound

✘ 4. Single sound

Q.14 Identify the symbol that is not a part of the mathematical language.

Ans ✘ 1. ≥

✔ 2. €

✘ 3. ÷

✘ 4. ≠

Q.15 What is the significant and key factor in the ecosystem?

Ans ✔ 1. Energy flow

✘ 2. Autotrophs

✘ 3. Plants

✘ 4. Soil

Q.16 "Readers look at the organization of the text and ideas without relating it to their prior knowledge or experience" which of the reading models does this define?

Ans ✘ 1. Lateral

✘ 2. Interactive

✘ 3. Top-down

✔ 4. Bottom-up

Q.17 When students with special education needs are made to fit into the pre-existing school structure, is called:

Choose the right answer from the options below.

Ans ✘ 1. Special education

✔ 2. Integrated education

✘ 3. Remedial education

✘ 4. General education

Q.18 The process of augmenting the same type of skills from that were to begin with is called:

Choose the correct response from the option below.

Ans ✘ 1. Unexpected learning

✘ 2. Discontinuous learning

✘ 3. Expected learning

✔ 4. Continuous learning

Q.19 Learning is a complex process that leads to what type of growth in individuals?

Ans

✗ 1. Physical

✗ 2. Ecological

✗ 3. Physiological

✓ 4. Mental

Q.20 Teacher prepares for the lesson with variety of resources and strategies, but with no particular learner in mind. Which of the classrooms does this describe?

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Ans

✓ 1. Common classroom

✗ 2. Vocational classroom

✗ 3. Inclusive classroom

✗ 4. Integrated classroom