1. If a relaxed eye has more refractive power than the emmetropic eye is known as
(A) Ametropia  (B) Myopia  (C) Hypermetropia  (D) Emmetropia

2. Which of the following is not a provision of the Haryana Industrial Policy, 2015?
(A) To create 10 lakh jobs and to attract an investment of 1 lakh crore
(B) To open food processing industries
(C) To open industrial township in Ambala and Panchkula
(D) To give easy loans for opening up 700 small scale production units

3. The junction of cornea and sclera is known as
(A) Sclera  (B) Cornea  (C) Limbus  (D) Retina

4. In a row of 10 boys, when Rohit was shifted by two places towards the left, he became seventh from the left end, what was his earlier position from the right end of the row?
(A) First  (B) Second  (C) Fourth  (D) Sixth

5. In ________, when the patient appreciates a dark area in his field of vision.
(A) Absolute scotoma  (B) Relative scotoma  (C) Positive scotoma  (D) Negative scotoma

6. In wireless networking the standard is
(A) Bluetooth  (B) Wifi  (C) 801.1  (D) 802.11

7. ________ is used to fumigate and to sterilize the operating room.
(A) Savlon  (B) Methylated spirit  (C) Formaldehyde gas  (D) Hydrogen peroxide
8. Consider the following statements I and II about Land, people and geographic features of India.
I. India is the seventh largest country in the world and ranks second in population.
II. India is lying entirely in the southern hemisphere.
(A) Only the statement I is correct
(B) Only the statement II is correct
(C) Both the statements I and II are correct
(D) None of the statements are correct

9. A is the son of B. C, B's sister, has a son D and a daughter E. F is the maternal uncle of D. How is E related to F?
(A) Sister
(B) Daughter
(C) Niece
(D) Nephew

10. Horizontal plane dividing the structure into superior and inferior parts
(A) Sagittal
(B) Midsagittal
(C) Transverse
(D) Coronal

11. Rahul told Anand, "Yesterday I defeated the only brother of the daughter of my grandmother". Whom did Rahul defeat?
(A) Son
(B) Father
(C) Brother
(D) Nephew

12. ______ occurs in acute nephritis and chronic renal disease due to circulation of toxins, which act on visual centres.
(A) Uraemia
(B) Meningitis
(C) Hysteria
(D) Lebers congenital amaurosis

13. Consider the following statements about National Anthem of India.
I. The song Jana-gana-mana, composed originally in Bangla by Rabindranath Tagore.
II. It was first sung on December 27, 1911 at the Belgaum Session of the Indian National Congress.
(A) Only the statement I is correct
(B) Only the statement II is correct
(C) Both the statements I and II are correct
(D) None of the statements are correct

15/2019 (E)
14. Instrument used for doing capsulotomy during extracapsular lens extraction
(A) Von Graefe’s Knife
(B) Keratome
(C) Paracentesis Needle
(D) Capsulotome

15. Which of the following districts of Haryana does not share its boundary with any State or Union Territory?
(A) Jind
(B) Jhajjar
(C) Charkhi Dadri
(D) Narnaul

16. The ________ is the opaque white of the eye and is covered by the transparent conjunctiva.
(A) Sclera
(B) Cornea
(C) Ciliary body
(D) Retina

17. ________ in which both meridia are myopic but by differing amounts.
(A) Compound myopic astigmatism
(B) Simple myopic astigmatism
(C) Simple hypermetropic astigmatism
(D) Compound hypermetropic astigmatism

18. Which of the following river/s in the Deccan generally flow/s in the east direction and fall into the Bay of Bengal?
(A) Krishna
(B) Godavari
(C) Cauvery
(D) All of the above

19. Which of the following is not the main function of the Haryana Urban Development Authority (HUDA)?
(A) To collect property taxes
(B) To promote and secure development of urban areas
(C) To acquire, develop and dispose of land
(D) To undertake construction projects

14. बाहसंपुटी लेन्स को निकालने के दौरान कैप्सुलोटोमी करने हेतु प्रयुक्त चंद्र है?
(A) चौं ग्राॅफ़े का चाकू
(B) किनेटोम
c. फीस्टरसिनस सूई
d. कैप्सुलोटोम
c. फीस्टरसिनस सूई
d. कैप्सुलोटोम

15. हरियाणा के निम्नलिखित में से कौन-सा जिला अपनी सीमा किसी राज्य या केंद्रशासित प्रदेश के साथ साझा नहीं करता है?
(A) जींड
c. जहाजर
(B) झांजर
c. चारखी दादी
d. नानाइल

16. पाँच का पारभाषी श्वेत है और पादरी नेत्र-श्लेपला द्वारा आवरित होता है।
(A) शुक्ता (स्क्लरा)
(B) स्वच्छंद्र (कॉर्निया)
(C) पक्षाप्ति की
d. रेटिना

17. ________ जिसमें दोनों ही पराकाश मायोपिक होती हैं परंतु मात्रा भिन्न है।
(A) जूटल मायोपिक दृष्टिवैधय
c. साधारण मायोपिक दृष्टिवैधय
d. साधारण हाइपरमेट्रिक दृष्टिवैधय
c. जूटल हाइपरमेट्रिक दृष्टिवैधय

18. वर्तमान में निम्नलिखित में से कौन-सी नदी आमतौर पर पूर्व दिशा में बहती है और बंगाल की खाड़ी में पिरती है?
(A) कृष्णा
(B) गोदावरी
(C) कावेरी
d. उपरोक्त सभी

19. निम्नलिखित में से कौन-सा हरियाणा शहरी विकास प्राधिकरण (HUDA) का मुख्य कार्य नहीं है?
(A) संपत्ति कर की वसूली करना
(B) शहरी क्षेत्रों के विकास को बढ़ावा देना और सुरक्षित करना
(C) भूमि का अधिग्रहण, विकास और निपटान करना
d. निर्माण परियोजनाओं का दायित्व लेना
20. Which city is the largest producer of scientific instruments and called as the Science City of Haryana?
(A) Karnal (B) Gurugram (C) Hansi (D) Ambala

21. ______ is a procedure in which a lenticule of donor tissue is used to alter the surface topography of the cornea.
(A) Epikeratophakia (B) Laser-assisted in situ keratomileusis (C) Photorefractive keratectomy (D) Astigmatic keratotomy

22. ______ is used to cut the conjunctiva, skin and sutures.
(A) Plane Straight Scissors (B) Plane Curved Scissors (C) Corneal Scissors (D) De-Wecker’s Scissors

23. ______ are used for sterilizing swabs, dressing pads, tubings, plastic syringes.
(A) Ionizing radiation (B) Non-ionizing radiation (C) Alcohol (D) Spirit

24. In a certain code, ROAD is written as URDG. How is SWAN written in that code?
(A) VXDQ (B) VZDQ (C) VZCP (D) UXDQ

25. Which one of the following districts does not produce cotton in Haryana?
(A) Nuh (B) Rohtak (C) Jhajjar (D) Bhiwani

26. In ______, during contraction of an agonist, equal and simultaneous signal to relax is sent to the antagonist.
(A) Sherrington’s law (B) Hering’s law (C) Primary deviation (D) Secondary deviation
27. _______ is a transparent, colourless, inert gel which fills the posterior 4/5 of the eyeball.
(A) Vitreous  
(B) Lens  
(C) Aqueous humour  
(D) None of the above

28. Normal size of the pupil is
(A) 2 – 4 mm  
(B) 4 – 6 mm  
(C) 4 – 5 mm  
(D) 6 – 7 mm

29. Which of the following is true about Loor Dance of Haryana?
(A) It is a famous dance form of the Bangar  
(B) The dance is performed outdoors by men on moonlight nights  
(C) The dance accompanies a procession  
(D) The dance is performed in pairs within a circle

30. The _______ has two primary functions that includes to refract light and to transmit light.
(A) Sclera  
(B) Cornea  
(C) Limbus  
(D) None of the above

31. _______ provides objective measurements of the refractive state of the eye.
(A) Keratometers  
(B) Focimeters  
(C) Retinoscopy  
(D) None of the above

32. Dadupur Nalvi Canal Irrigation Project does not irrigate which of the following areas in Haryana?
(A) Kurukshetra  
(B) Ambala  
(C) Panchkula  
(D) Yamunanagar

33. A _______ describes all the data concerning one person or thing.
(A) Record  
(B) Field  
(C) Table  
(D) Relation
34. A train travels at an average of 50 miles per hour for $2\frac{1}{2}$ hours and then travels at a speed of 70 miles per hour for $1\frac{1}{2}$ hours. How far did the train travel in the entire 4 hours?
(A) 120 miles  (B) 150 miles  (C) 200 miles  (D) 230 miles

35. Discharge seen in mild bacterial infection and chlamydia infection
(A) Mucopurulent  (B) Watery  (C) Mucin  (D) Purulent

36. A ______ is the smallest possible unit of data a computer can recognize or use.
(A) Nibble  (B) Byte  (C) Bit  (D) Word

37. Which of the following is not designated as an Eco-Sensitive Zone by the Environment Ministry of India?
(A) Kalesar Wildlife Sanctuary  (B) Nahar Wildlife Sanctuary  (C) Khaparwas Wildlife Sanctuary  (D) Khol Hi-Ratan Wildlife Sanctuary

38. ______ is defined as the change in direction of light when it passes from one transparent medium into another of different optical density.
(A) Reflection  (B) Refraction  (C) Refraction  (D) Resolution

39. The NH 2 passes through which of the following districts of Haryana?
(A) Gurugram  (B) Panchkula  (C) Mewat  (D) Faridabad

40. Which of the following river does not flow through Haryana?
(A) Ghaggar  (B) Sahibi  (C) Mahanadi  (D) Dohan

41. Coins of Samudra Gupta period were found in which place of Haryana?
(A) Sonipat  (B) Mitathal  (C) Bhiwani  (D) Sugh
42. If \(2 + 3 = \sqrt{13}\) and \(3 \cdot 4 = 5\), then the value of \(5 \cdot 12\) is
(A) \(\sqrt{17}\)  (B) \(\sqrt{29}\)
(C) 12  (D) 13

43. _______ provide measurements of the curvature of the cornea.
(A) Keratometers  
(B) Focimeters  
(C) Retinoscopy  
(D) All of the above

44. In the reaction represented by \(z^A \to z^{-2} \to z^{-2} \to z^{-1} \to z^{-1} \to z^{-1}\)
the decays in the sequence are
(A) \(\alpha, \beta, \gamma\)  (B) \(\beta, \gamma, \alpha\)
(C) \(\gamma, \alpha, \beta\)  (D) \(\alpha, \gamma, \beta\)

45. _______ are coloured lithographic plates in which bold numbers are represented in dots of various colours.
(A) The lantern test  
(B) Isochromatic chart  
(C) Holmgren's wools  
(D) Nagel's anomaloscope

46. The _______ is a pigmented, vascularized, loose connective tissue layer containing melanocytes, fibroblasts, macrophages, lymphocytes and mast cells.
(A) Suprachoroid lamina  
(B) Choroidal stroma  
(C) Choriocapillaris  
(D) Bruch's membrane

47. When was the Haryana Gauvansh Sanrakshan and Gausamvardhan Act launched?
(A) 2016  (B) 2015  
(C) 2014  (D) 2013
48. A ________ is defined as a portion of a refracting medium bordered by two plane surfaces which are inclined at a finite angle.
(A) Mirror  (B) Prism  (C) Lens  (D) None of the above

49. Which of the following is true?
(A) \( \sqrt{2} + \sqrt{5} = \sqrt{7} \)  (B) \( \sqrt{2} + \sqrt{5} \leq \sqrt{7} \)
(C) \( \sqrt{2} + \sqrt{5} < \sqrt{7} \)  (D) \( \sqrt{2} + \sqrt{5} > \sqrt{7} \)

50. In ________ of light enters an eye, the pupil of this eye contracts.
(A) Direct light reflex  (B) Indirect light reflex  (C) Near reflex  (D) Psychosensory reflex

51. Which Report is considered as “Magna Carta of English Education in India”?
(A) Hunter Commission Report  (B) Mecaulay’s Report  (C) Sir Charles Wood’s Despatch  (D) Kothari Education Report

52. Zinc blende is
(A) ZnCO\(_3\)  (B) ZnSO\(_4\)  (C) ZnS  (D) Zn(NO\(_3\))\(_2\)

53. Which was the centre of social and political activities of Lala Lajpat Rai?
(A) Sonipat  (B) Panipat  (C) Kurukshetra  (D) Hisar

54. ________ are made popular by the early treatment diabetic retinopathy study as the gold standard for research, this is based on a logarithmic approach.
(A) Snellen chart  (B) LogMAR charts  (C) Near acuity charts  (D) Jaeger charts
55. In 1999, which barrage was replaced by the Hathnikund Barrage in Haryana?
   (A) Ottu Barrage
   (B) Tajewala Barrage
   (C) Anagpur Dam
   (D) None of the above

56. Mauryan Stupa and relics were found in which place in Haryana?
   (A) Fatehabad
   (B) Karnal
   (C) Agroha
   (D) Shanila

57. On a computer with an Internet connection, a ______ is designed to restrict Internet access, primarily to keep unwanted guests out.
   (A) Network Address Translator
   (B) Firewall
   (C) Proxy server
   (D) File server

58. Night blindness is usually the earliest manifestation of ______ deficiency.
   (A) Vitamin A
   (B) Vitamin B
   (C) Vitamin D
   (D) Vitamin C

59. Burning discomfort and grittiness specially in the evening, edges of the lids feel hot and dry, difficulty in keeping the lids open, mild serous discharge may be present. It is seen in
   (A) Simple Chronic Conjunctivitis
   (B) Angular Conjunctivitis
   (C) Follicular Conjunctivitis
   (D) Trachoma

60. The inflammation of the pars plana part of the ciliary body
   (A) Intermediate uveitis
   (B) Posterior uveitis
   (C) Endophthalmitis
   (D) Panophthalmitis

61. Two identical coaxial coils P and Q carrying equal amount of current in the same direction are brought nearer. The current in
   (A) P increases while in Q decreases
   (B) Q increases while in P decreases
   (C) Both P and Q increases
   (D) Both P and Q decreases
62. The National Horse Research Institute in Haryana is located in
(A) Hisar    (B) Gurugram
(C) Faridabad  (D) Jind

63. The middle vascular layer of eye consists of
(A) Iris    (B) Ciliary body
(C) Choroid  (D) All of the above

64. In Protanopes, there is absence of _______ sensation.
(A) Blue    (B) Red
(C) Green    (D) Brown

65. Which King was defeated by Babar in 1526 in the first battle of Panipat?
(A) Nadir Shah  (B) Ibrahim Lodhi
(C) Daulat Khan Lodhi  (D) Ahmad Shah

66. The Union Executive consists of
(A) The President, the Vice-President and the Council of Ministers with the Prime Minister as the head
(B) The President, the Vice-President, the Council of Ministers and the Chief Ministers of the States
(C) The President, the Vice-President, the Prime Minister and the Speaker
(D) None of the above

67. How many wildlife Sanctuaries are there in Haryana at present?
(A) 5    (B) 10
(C) 12    (D) 8

68. Kushana Period is famous for the growth of this Greco-Roman Art
(A) Mathura Art  (B) Gandhara Art
(C) Vesara Style of Art  (D) Nagara Style of Art
69. _______ generally long in terms of axial length, may predispone to needle stick injuries during anaesthesia.
   (A) Myopic eyes
   (B) Hypermetropic eyes
   (C) Aphakia
   (D) Astigmatism

70. Organisms lodged in some other organ of the body reach the eye through the bloodstream
   (A) Exogenous infection
   (B) Endogenous infection
   (C) Allergic inflammation
   (D) Secondary infection

71. _______ allows the measurement of the angle of deviation, which provides quantification and documentation of the squint.
   (A) Alternate cover test
   (B) Prism reflection test
   (C) Prism cover test
   (D) Hirschberg's test

72. Ionisation energy of oxygen is less than that of
   (A) Carbon
   (B) Silicon
   (C) Sulphur
   (D) Nitrogen

73. Who was the first Muslim ruler of the Slave dynasty in Haryana?
   (A) Ilutmish
   (B) Qutb-ud-din Aibak
   (C) Balban
   (D) Razia Sultana

74. The intraocular pressure in glaucoma is
   (A) 1 – 5 mm Hg
   (B) 6 – 10 mm Hg
   (C) 10 – 15 mm Hg
   (D) Above 25 mm Hg

75. Which mineral is found in Gurugram district of Haryana?
   (A) Graphite
   (B) Slate
   (C) Copper
   (D) Zinc
76. _______ is seen in cases of raised intracranial tension (brain tumour) and malignant hypertension.
   (A) Optic atrophy
   (B) Optic neuritis
   (C) Papillitis
   (D) Papilloedema

77. The Chairman and members of the Union Public Service Commission are appointed by
   (A) President of India
   (B) Prime Minister
   (C) Union Cabinet
   (D) Union Parliament

78. If $x = 5 + 2\sqrt{6}$, then $\frac{x - 1}{\sqrt{x}}$ is equal to
   (A) $\sqrt{2}$
   (B) $2\sqrt{2}$
   (C) $\sqrt{3}$
   (D) $2\sqrt{3}$

79. Which river originates from Mewat Hills near Jitgarh of Haryana?
   (A) Dohan
   (B) Sahib
   (C) Tangri
   (D) Krishanwati

80. _______ is a condition of loss of half the field of vision of both eyes.
   (A) Amblyopia
   (B) Amaurosis
   (C) Hemianopia
   (D) Amylopia

81. Where is the National Dairy Research Institute located in Haryana?
   (A) Hisar
   (B) Jhajjar
   (C) Faridabad
   (D) Karnal

82. From which principalities of Haryana did Nawab Ahmad Ali Ghulam Khan lead the 1857 Revolt?
   (A) Panipat
   (B) Hisar
   (C) Bahadurgarh
   (D) Farrukhnagar
<table>
<thead>
<tr>
<th>English Language</th>
<th>हिन्दी भाषा</th>
</tr>
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<tbody>
<tr>
<td>83. In each of the following questions, out of the given group of words, choose</td>
<td>87. 'यशोगान' शब्द का संधि विच्छेद करके संधि का नाम बताइए।</td>
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<td>the mis-spelt one.</td>
<td>(A) यश + गान = गुण संधि</td>
</tr>
<tr>
<td>(A) Dependant</td>
<td>(B) यश: + गान = विसर्ग संधि</td>
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<tr>
<td>(B) Detrimental</td>
<td>(C) यशो + गान = वृद्धि संधि</td>
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<td>(C) Describe</td>
<td>(D) इनमें से कोई नहीं</td>
</tr>
<tr>
<td>84. In each of the following questions, an idiomatic expression/a proverb has</td>
<td>88. जिस समस्तपद का उत्तरपद प्रधान होता है, उसे __________ समास कहते हैं।</td>
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<td>been given, followed by some alternatives, choose the one which best</td>
<td>(A) अव्ययीभाव</td>
</tr>
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<td>expresses the meaning of the given idiom/proverb.</td>
<td>(B) वहृतीभी</td>
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<td>To save one's face.</td>
<td>(C) तत्पुरुष</td>
</tr>
<tr>
<td>(A) To hide oneself</td>
<td>(D) इनमें से कोई नहीं</td>
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<tr>
<td>(B) To oppose</td>
<td>89. किसी स्वर के उच्चारण में लगाए वाले समय को __________ कहते हैं।</td>
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<tr>
<td>(C) To evade disgrace</td>
<td>(A) मात्र</td>
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<tr>
<td>(D) To say plainly</td>
<td>(B) शब्द</td>
</tr>
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<td></td>
<td>(C) व्यंजन</td>
</tr>
<tr>
<td></td>
<td>(D) इनमें से कोई नहीं</td>
</tr>
<tr>
<td>85. No one will invite her to a tea for she is so garrulous.</td>
<td>90. सम्पूर्वयोग्य अव्यय को __________ भी कहते हैं।</td>
</tr>
<tr>
<td></td>
<td>(A) योजक</td>
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<td>(B) वच्च</td>
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<td>(C) सूचक</td>
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<td>(D) इनमें से कोई नहीं</td>
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