

10. Introducing Radha to his friend Krishna said, 'Radha is the wife of the only son of the only daughter of my grandmother'. How is Radha related to Krishna's father?

- 1) Niece 2) Daughter 3) Daughter-in-law 4) Wife

11. In a row of students there are 18 persons sitting between Jaya, who is 7th from the left, and Juhi who is 12th from the right. If Jyoti is sitting exactly in the middle of the row, then how many students are there to her left in the row?

- 1) 16 2) 18 3) 17 4) 19

12. From the given alternative words, select the word which **cannot** be formed by using the letters of the given word

JURISDICTION

- 1) CONDUITS 2) JUNCTION 3) DISCOUNT 4) INDUCTOR

13. If SERVANT is coded as HVIEZMG, then how will CERTAIN be coded?

- 1) YVIGZRM 2) XVIHYRN 3) XVJHZSM 4) XVIGZRM

14. If (+) stands for multiplication, (×) stands for addition, (÷) stands for division and (−) stands for subtraction, then which of the following options is true?

- 1) $52 - 13 \times 3 + 8 \div 7 = 21$
 2) $35 \times 15 - 5 \div 6 + 2 = 20$
 3) $42 + 13 \times 3 - 8 \div 17 = 10$
 4) $92 - 53 \times 13 + 8 \div 72 = 23$

15. If $8 * 3 * 7 = 728$

$5 * 4 * 1 = 135$

$6 * 2 * 9 = 916,$

then find the value of $5 * 8 * 6.$

- 1) 586 2) 675 3) 765 4) 567

16. Find the missing term from the given responses.

67	52	15
21	33	77
14	17	?

- 1) 12 2) 23 3) 16 4) 10

17. Amit starts from his house and drives 15 km south then he turns left and drives for 5 km before taking a right turn after which he drives for 20 km and again turns left and drives for 7 km to reach his office. How far is Amit's office from his house?

- 1) 40 km 2) 42 km 3) 37 km 4) 47 km

18. Consider the given statement to be true and decide which of the given conclusions can be drawn from the given statement.

- 1) Only conclusion I follows
 2) Only conclusion II follows
 3) Both conclusion I and conclusion II follow
 4) Neither conclusion I nor conclusion II follows

Statement: If winter comes, can spring be far behind.

Conclusions:

I. Change is the law of nature.

II. People love the season of spring.

19. Four positions of a dice are shown in the question figures. Which of the following answer figure must be at the bottom face when the dice is in the position as shown in the figure (iv)?

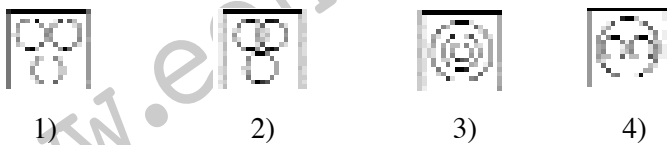
Question Figures:



Answer Figures:



20. Which one of the following figures best represents the relationship among cutlery, plate and spoon?



21. Which answer figure will complete the pattern in the question figure?

Question Figures:

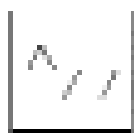


Answer Figures:



22. From the given answer figures select the figure which is hidden/ embedded in the question figure.

Question Figures:



Answer Figures:



23. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question Figures:



Answer Figures:



24. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

Question Figures:



Answer Figures:



25. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of English alphabet as shown in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. H can be represented by 10, 97, etc. and O can be represented by 43, 58, etc. Similarly, you have to identify the set of numbers for the word 'CUBED'.

Matrix I					Matrix II				
0	1	2	3	4	5	6	7	8	9
0	Q	U	W	Z	5	U	W	Y	Z
1	Q	U	W	Z	6	U	W	Y	Z
2	Q	U	W	Z	7	U	W	Y	Z
3	Q	U	W	Z	8	U	W	Y	Z
4	Q	U	W	Z	9	U	W	Y	Z

- 1) 11, 14, 98, 69, 78
 2) 33, 14, 20, 33, 00
 3) 11, 86, 03, 69, 23
 4) 33, 79, 03, 68, 66

GENERAL AWARENESS

26. Which one of the following countries is not a member of ASEAN?
 1) Indonesia
 2) Malaysia
 3) Singapore
 4) Australia

27. Who of the following Indian leaders is known for popularizing the slogan "Satyameva Jayathe"?
- 1) Pandit Jawaharlal Nehru
 - 2) Pandit Lal Bahadur Shastri
 - 3) Pandit Madan Mohan Malviya
 - 4) Chittaranjan Das
28. A light-year is a unit of length used to express:
- 1) Intensity of Light
 - 2) Frequency of Heat
 - 3) Astronomical Distances
 - 4) Distance between Jupiter and Neptune
29. Syadvada is a doctrine related with which of the following religion?
- 1) Hinduism
 - 2) Buddhism
 - 3) Jainism
 - 4) Both (1) and (3)
30. Which of the following is the world's first major central bank to introduce a negative interest rate?
- 1) The European Central Bank (ECB)
 - 2) People's Bank of China (PBC)
 - 3) Swiss National Bank
 - 4) Federal Reserve System
31. The mirror which is used in search lights is
- 1) Plane
 - 2) Parabolic
 - 3) Convex
 - 4) Concave
32. Which of the following gas is used as a popular recreational drug?
- 1) Neon
 - 2) Helium
 - 3) Nitrous oxide
 - 4) Methyl Isocyanide
33. On which river is Nagarjuna Sagar dam is built?
- 1) Godavari
 - 2) Kaveri
 - 3) Narmada
 - 4) Krishna
34. Which is the only district in India which borders with four states?
- 1) Chhindwada
 - 2) Sonbhadra
 - 3) Kangra
 - 4) Hisar
35. Which of the following lakes is the result of tectonic activity?
- 1) Pulicat Lake
 - 2) Kolleru Lake
 - 3) Wular Lake
 - 4) Chilka Lake
36. The Dhuandhar Falls in Madhya Pradesh is located over which river?
- 1) Kaveri
 - 2) Narmada
 - 3) Tapi
 - 4) Chambal
37. The 'Doing Business Report' is prepared by which of the following organizations every year?
- 1) World Bank
 - 2) Asian Development Bank
 - 3) International Monetary Fund
 - 4) World Trade Organization
38. In India, in which one of the following types of forests is Rosewood a dominant tree species?
- 1) Tropical rain forest
 - 2) Tropical thorn scrub forest
 - 3) Temperate forest with grasslands
 - 4) Tropical moist deciduous forest

39. Which among the following acids is responsible for the cause of muscle fatigue in human being?
1) Pyruvic acid 2) Lactic acid 3) Uric acid 4) Oxalic acid
40. Which among the following human gland does secrete growth hormone?
1) Ebner Gland 2) Pituitary Gland
3) Endocrine Gland 4) Adrenal Gland
41. Who among the following is universal blood group donor for all blood groups?
1) A 2) O 3) AB 4) B
42. The chemical name of Vitamin D is
1) Riboflavin 2) Retinol
3) Calciferol 4) Cyanocabalamine
43. When an iron ball is heated, the percentage increase will be maximum in its
1) Volume 2) Density 3) Surface Area 4) Diameter
44. What is the color of the Black box, found in an aircraft?
1) Fluorescent white 2) Fluorescent black
3) Red 4) Fluorescent orange
45. In India, the Prime Minister is head of
1) State 2) Government 3) Constitution 4) Parliament
46. In India the first trade point has been set up at
1) Gorakhpur 2) Surat 3) Thane 4) New Delhi
47. Which of the following is not an operating system?
1) Mac OS 2) Black Berry 3) Mozilla 4) Android
48. The best picture award at 89th Academy awards in 2017 won by
1) La La Land 2) Moonlight 3) Arrival 4) Fences
49. Which is the first state in India where Panchayati Raj was established?
1) Madhya Pradesh 2) Gujarat 3) Rajasthan 4) Punjab
50. Which of the following articles deals with Constitutional amendment?
1) Article 352 2) Article 360 3) Article 368 4) Article 370

QUANTITATIVE APTITUDE

51. A is twice as good as B and thrice as good as C. If A and C can finish a piece of work in 15 days, then find the time taken by B and C to finish twice the work while working together.
1) 16 days 2) 24 days 3) 32 days 4) 48 days
52. A shopkeeper sold an article at Rs.816 after allowing three successive discounts of 15%, 25% and 20%. Find the selling price of the article if he had offered a single discount of 35%.
1) Rs.1,020 2) Rs.1,040 3) Rs.1,140 4) Rs.1,120
53. The numbers x, y, z are respectively proportional to 2, 3, 5 and the product of x, y and z is 15360. If $z = by + 4$, then find the value of b.
1) 2 2) 2.5 3) 1 4) 1.5

54. If the ratio of the cost price and the marked price of an article is 9 : 11 and the discount offered is 10%, then the profit percentage is
 1) 10% 2) 12% 3) 12.5% 4) No profit
55. The price of rice increased by 75% while the expenditure increased by 40%. Find the percentage change in the consumption.
 1) 20% increase 2) 25% decrease
 3) 20% decrease 4) 25% increase
56. A car covers a total distance of 450 km. For the first 10 hours, the speed was 25 km/hr and then it was reduced to 40%. Find the average speed (in m/s) of the car during the entire journey.
 1) $4\frac{1}{6}$ 2) $5\frac{1}{6}$ 3) $5\frac{2}{5}$ 4) $3\frac{1}{6}$
57. In how many years will the ratio of the money invested at 10% per annum compound interest, compounded semi-annually and compound interest be 8000 : 1261?
 1) 1 2) 1.5 3) 2 4) 2.5
58. If $(x - 2)(x - p) = x^2 - ax + 6$, then the value of p^a is
 1) 125 2) 343 3) 32 4) 243
59. If $x - \frac{1}{x} = 2$, then find the value of $x^6 + \frac{1}{x^6}$
 1) 188 2) 198 3) 186 4) 196
60. In ΔABC , if $\angle C - \angle A = 70^\circ$, $\angle B + \angle C = 140^\circ$ and $\angle A + 2\angle B = 100^\circ$, then find the value of $2\angle B - \angle A$.
 1) 10° 2) 15° 3) 20° 4) 25°
61. If PA and PB are two tangents at a circle with center O such that $\angle AOP : \angle APO = 7 : 11$, then find the measure of $\angle BPA$.
 1) 88° 2) 99° 3) 110° 4) 121°
62. If $\tan(5x - 10^\circ) = \cot(20^\circ - 5y)$, then the value of $6x + 8y$ is
 1) 26° 2) 24° 3) 28° 4) 32°
63. Find the maximum value of the product of two natural numbers if their sum is 24.
 1) 135 2) 140 3) 143 4) 144
64. The average marks obtained by a class of 60 students are 66. The average marks obtained by one-third of the students are 59 while the average marks obtained by 40% of the remaining students are 68. Find the average marks obtained by the remaining students of the class.
 1) 69 2) 69.5 3) 70 4) 70.5
65. If $x = \sqrt{5} + \frac{1}{\sqrt{5}}$ and $y = \sqrt{5} - \frac{1}{\sqrt{5}}$ then find the value of $x^2 + y^2 - 4xy$.
 1) $50 - \frac{6}{5}$ 2) $50 - \frac{5}{6}$ 3) $10 - \frac{6}{5}$ 4) $10 - \frac{5}{6}$
66. If $x = \sqrt[3]{(x^2 + 8)} - 2$, then find the value of $x^3 + 5x^2 + 12x$.
 1) - 1 2) 0 3) 1 4) 2

ENGLISH COMPREHENSION

Directions (Question no. 76): In the following question, out of the four alternatives, choose the word which best expresses the meaning of the word given in bold.

76. Laceration

- 1) Machination 2) Mutilation 3) Alliteration 4) Assimilation

Directions (Question no. 77): In the following question, out of the four alternatives, choose the word which is opposite in meaning to the word given in bold.

77. Benevolence

- 1) Animosity 2) Altruism 3) Benediction 4) Generosity

Directions (Question no. 78): Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word out of the given options.

- 78.** 1) Acquesce 2) Acquiesce 3) Acquisce 4) Acqueisce

Directions (Question nos. 79 to 81): In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and choose the appropriate letter.

If the sentence is free from error, choose the "No error" option.

79. I think (1)/ your's (2)/ is a better plan. (3)/ No error (4).

80. Neither of (1)/ the two dogs (2)/ were black. (3)/ No error (4).

81. It is impossible (1)/ to trust (2)/ the word of a habitual liar. (3)/ No error (4).

Directions (Question nos. 82 to 84): The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested. Choose the correct option.

82. He is still in vigorous health, although he is on the side of sixty.

- 1) left 2) top 3) full 4) wrong

83. He says he has the examination.

- 1) passing 2) past 3) passed 4) pass

84. There are black in every department.

- 1) horses 2) sheep 3) ship 4) goats

Directions (Question nos. 85 to 87): In each of the questions, four alternatives are given for the Idiom / Phrase. Choose the alternative which corresponds to the meaning of the given Idiom / Phrase.

85. Cock and bull story

- 1) A factual tale 2) An unbelievable tale
3) A mythological story 4) A folktale

86. Hit the sack

- 1) Get into bad 2) Hit someone angrily
3) Meet with an accident 4) Shout at someone

87. Hit the books

- 1) To sell the books 2) To study hard
3) Become a bestseller 4) Publish a book

Directions (Question nos. 88 to 90): Out of the four alternatives, choose the one which can be substituted for the given words/ sentences.

88. Fear of public places.

- | | |
|------------------|----------------|
| 1) Acrophobia | 2) Agoraphobia |
| 3) Arachnophobia | 4) Xenophobia |

89. One who has two wives.

- | | | | |
|--------------|------------|-------------|--------------|
| 1) Bilingual | 2) Bipolar | 3) Bigamist | 4) Polyandry |
|--------------|------------|-------------|--------------|

90. An intense craving for alcohol.

- | | |
|----------------|---------------|
| 1) Kleptomania | 2) Andromania |
| 3) Anglomania | 4) Dipsomania |

Directions: (Question nos. 91 to 95): A sentence/ a part of the sentence is underlined. Four alternatives are given which can replace the underlined part. Choose the correct alternative. In case no improvement is needed, choose the option corresponding to "No improvement".

91. They were playing since six o' clock.

- | | |
|-----------------|----------------------|
| 1) play | 2) have been playing |
| 3) have playing | 4) No improvement |

92. I met him in Mumbai in 1997.

- | | |
|-----------------|-------------------|
| 1) have met him | 2) have meet him |
| 3) meet him | 4) No improvement |

93. I have been teaching for fifteen years next December.

- | | |
|----------------------------|-------------------|
| 1) have taught | 2) will teach |
| 3) will have been teaching | 4) No improvement |

94. I have written the letter before he arrived.

- | | |
|----------------|-------------------|
| 1) had written | 2) will write |
| 3) shall write | 4) No improvement |

95. The war being ended, the soldiers returned.

- | | |
|------------|-------------------|
| 1) ends | 2) have ended |
| 3) can end | 4) No improvement |

Directions (Question nos. 96 to 100): A passage is given with 5 questions following it. Read the passage carefully and choose the best answer out of the four alternatives.

Rhino poaching in Assam is one of the major environmental issues in India which continues in the region of Kaziranga National Park, Manas National Park and some other grasslands of Assam. The one horn rhino or Indian rhino is surviving in the north-east corner of India, Assam. Kaziranga National Park, Pobitora in Marigaon district and Orang National Park in Darrang district of Assam account almost 95% of the total wild one horned rhino in the world. These rhinos inhabit most of the floodplains of the Indogangetic and Brahmaputra riverine tracts and the neighbouring foothills.

Sport hunting became common in the late 1800s and early 1900s. Indian rhinos were hunted relentlessly and **persistently**. Reports from the middle of the 19th century claim that some military officers in Assam individually shot more than 200 rhinos. By 1908, the population in Kaziranga had decreased to around 12 individuals. In the early 1900s, the species had declined to near extinction.

Poaching for rhinoceros horn became the single most important reason for the decline of the Indian rhino after conservation measures were put in place from the beginning of the 20th century, when legal hunting ended. From 1980 to 1993, 692 rhinos were poached in India. In India's Laokhowa Wildlife Sanctuary 41 rhinos were killed in 1983, virtually the entire population of the sanctuary. By the mid-1990s, poaching had rendered the species extinct there. Illegal rhino horn trade has been the main problem facing managers of the rhino-protected areas of Assam. Some other parts like nails, skins have very high value in Asian traditional medicinal market. According to research by Traffic (conservation programme) and World Wide Fund for Nature, some Vietnamese buyers believe horn to be a cure for cancer when ground to a fine powder. According to a survey conducted by World Wide Fund for Nature in South Africa, it is kept by wealthy people in Vietnam as a "peace of mind" cure.

In 1993, rhino horn was removed from the official lists of Traditional Chinese Medicine. It is now only sold in Vietnam following an unsubstantiated rumour that horn cured a high-ranking official in Vietnam of cancer.

96. According to the passage, what is the main problem plaguing rhino conservation?
- 1) Climatic change
 - 2) Illegal rhino horn trade
 - 3) Changing character of the grasslands
 - 4) Shrinking fodder
97. According to the passage, for what purpose are the nails of rhinos used?
- 1) The nails of rhinos can be used as weapons.
 - 2) The nails of rhinos are mainly used for decorative purposes.
 - 3) People believe that the nails of rhinos bring good luck to families.
 - 4) People believe that the nails of rhinos have medicinal properties.
98. Out of the following options, which one comes closest to the word 'persistent'?
- 1) Precedent
 - 2) Resolute
 - 3) Residue
 - 4) Reticent
99. By when the rhinos had become extinct in Laokhowa Wildlife sanctuary?
- 1) Towards the beginning of this century.
 - 2) Towards the beginning of the previous century.
 - 3) Towards the middle of the last decade of the previous century.
 - 4) Towards the middle of the previous century.
100. How many rhinos were killed in India between the years 1980 and 1993?
- 1) A little more than 700 rhinos
 - 2) A little less than 700 rhinos
 - 3) A little more than 1000 rhinos
 - 4) A little more than 1100 rhinos

KEY

1-3; 2-2; 3-4; 4-3; 5-4; 6-3; 7-3; 8-1; 9-3; 10-3; 11-2; 12-2; 13-4; 14-1; 15-2; 16-4; 17-3; 18-1; 19-3; 20-4; 21-4; 22-3; 23-3; 24-4; 25-3; 26-4; 27-3; 28-3; 29-3; 30-1; 31-2; 32-3; 33-4; 34-2; 35-3; 36-2; 37-1; 38-4; 39-2; 40-2; 41-2; 42-3; 43-1; 44-4; 45-2; 46-4; 47-3; 48-2; 49-3; 50-3; 51-4; 52-2; 53-4; 54-1; 55-3; 56-1; 57-2; 58-4; 59-2; 60-3; 61-3; 62-1; 63-4; 64-4; 65-1; 66-2; 67-1; 68-1; 69-3; 70-3; 71-2; 72-1; 73-2; 74-2; 75-4; 76-2; 77-1; 78-2; 79-2; 80-3; 81-4; 82-4; 83-3; 84-2; 85-2; 86-1; 87-2; 88-2; 89-3; 90-4; 91-2; 92-4; 93-3; 94-1; 95-4; 96-2; 97-4; 98-2; 99-3; 100-2.

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