

## NUMERICAL ABILITY

1. The probability of getting a multiple of 2 on the first dice and a multiple of 3 on the other dice, when both dice are thrown simultaneously is :
- (1)  $\frac{1}{6}$  (2)  $\frac{5}{12}$   
 (3)  $\frac{11}{36}$  (4)  $\frac{5}{36}$
2. The area of a rectangular field is 15 times the sum of its length and breadth. If the length of that field is 40 metres, what is the breadth of that field ?  
 (1) 24 metre (2) 25 metre  
 (3) 28 metre (4) 32 metre
3. Find the measure of angle, if six times its complement is  $12^\circ$  less than twice its supplement.  
 (1)  $48^\circ$  (2)  $36^\circ$   
 (3)  $12^\circ$  (4)  $45^\circ$
4. The decimal representation of a rational number is :  
 (1) Always terminating  
 (2) Either terminating or repeating  
 (3) Either terminating or non repeating  
 (4) Neither terminating nor repeating
5. Find the volume and surface area of a sphere of radius 21 cm respectively :  
 (1)  $38808 \text{ cm}^3$  and  $5544 \text{ cm}^2$   
 (2)  $38888 \text{ cm}^3$  and  $5544 \text{ cm}^2$   
 (3)  $38880 \text{ cm}^3$  and  $5454 \text{ cm}^2$   
 (4)  $38818 \text{ cm}^3$  and  $4455 \text{ cm}^2$
6. One acute angle of a right angled triangle is double the other. If the length of its hypotenuse is 10 cm, then its area is :
- (1)  $\frac{75}{2} \text{ cm}^2$  (2)  $25 \text{ cm}^2$   
 (3)  $\frac{25}{2} \sqrt{3} \text{ cm}^2$   
 (4) None of these
7. The average marks obtained by 20 students is 45. The average of first ten students is 50 and that of last 9 students is 40. What are the marks obtained by the 11th student?  
 (1) 30 (2) 0  
 (3) 40 (4) 45
8. If the side of a cube is decreased by 10%, the percentage decrease in the volume of the cube is :  
 (1) 72.9% (2) 10%  
 (3) 19% (4) 27.1%
9. How much is the consumption wattage of a TV which when used 2 hrs a day for 30 days in a month, along with house-hold gadgets consuming 5 units a day, aggregates a monthly consumption of 159 electrical units? (One unit is 1000 watts) :  
 (1) 100 watts (2) 200 watts  
 (3) 150 watts (4) 25 watts
10. A compact disc player when sold for ₹ 13,600 incurred a loss of 15 per cent. At what price should it have been sold to make a profit of 35 per cent on the cost ?  
 (1) ₹ 21,600 (2) ₹ 20,400  
 (3) ₹ 19,600  
 (4) None of these
11. A bus left with some definite number of passengers. At the first stop, half the passengers left the bus and 35 boarded the bus. At the second stop  $\frac{1}{5}$ th of the passengers left and 40 boarded the bus. Then, the bus moved with 80 passengers towards its destination without stopping anywhere. How many passengers were there originally ?  
 (1) 40 (2) 30  
 (3) 50 (4) 60
12. When three coins are tossed together, the probability that all coins have the same face is :  
 (1)  $\frac{1}{4}$  (2)  $\frac{1}{6}$   
 (3)  $\frac{1}{3}$   
 (4) None of these
13. Puneeta borrowed from Reena certain sum for two years at a simple interest. Puneeta lent this sum to Venu at the same rate for two years compound interest. At the end of two years she received ₹ 110 as compound interest but paid ₹ 100 as simple interest. Find the sum and rate of interest :  
 (1) ₹ 250, rate 10% per annum  
 (2) ₹ 250, rate 20% per annum  
 (3) ₹ 250, rate 25% per annum  
 (4) None of these
14. 2000 soldiers in a fort had enough food for 20 days. But some soldiers were transferred to another fort and the food lasted for 25 days. How many soldiers were transferred ?  
 (1) 400 (2) 450  
 (3) 525 (4) 500
15. The HCF and LCM of two numbers are 13 and 1989 respectively. If one of the numbers is 117, determine the other.  
 (1) 121 (2) 131  
 (3) 221 (4) 231
16. The difference between the length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then its area is :

(1) 2520 m<sup>2</sup> (2) 2480 m<sup>2</sup>

(3) 2420 m<sup>2</sup>

(4) None of these

17. Salaries of Akash, Babloo and Chintu are in the ratio of 2 : 3 : 5. If their salaries were increased by 15%, 10% and 20% respectively, what will be the new ratio of their salaries?

(1) 3 : 3 : 10

(2) 23 : 33 : 60

(3) 20 : 22 : 40

(4) None of these

18. If a runner takes as much time in running 20 metres as the car takes in covering 50 metres, the distance covered by the runner during the time the car covers 1 km is :

(1) 400 metres

(2) 40 metres

(3) 440 metres

(4) None of these

19. If a right circular cone of vertical height 24 cm has a volume of 1232 cm<sup>3</sup>, then the area of its curved surfaces is

(1) 550 cm (2) 625 cm

(3) 675 cm

(4) None of these

20. For celebration of his birthday Ram goes to purchase sweets. He needs to buy a minimum of 300 pieces of rasgulla and 150 pieces of cream roll. Only pre-packed packets are available in the shop for these two items. These are economy pack and premium pack. Economy pack has 4 rasgullas and 1 cream roll costing ₹ 25 per pack and premium pack has 10 rasgullas and 7 cream rolls costing ₹ 75 per packet. If he has to meet his requirement with the premium and economy packs, what is the minimum expenditure he has to incur ?

(1) ₹ 1575 (2) ₹ 2100

(3) ₹ 2425 (4) ₹ 2975

21. A shop owner gives a discount of 10% on the marked price of a radio, but in the bargain makes a profit of 10%. If the marked price is Rs. 330, the cost price is rupees :

(1) 297 (2) 300

(3) 315 (4) 270

22. The sum of three numbers is 57 and the ratio of 1st to 2nd is 3 : 7 and 2nd to 3rd is 7 : 9. The second number is :

(1) 21

(2) 27

(3) 18

(4) 14

23. If  $\frac{189}{\sqrt{x}} = 1.89$  then  $x$  is equal

to

(1) 100 (2) 1000

(3) 10000 (4) 100000

24.  $0.12 \times 12 \times 0.012 = ?$

(1) 0.01688 (2) 0.1728

(3) 1.728 (4) 0.01728

25. The difference between  $\frac{3}{4}$  of 64

and  $\frac{2}{3}$  of 48 is equal to :

(1) 24

(2) 20

(3) 32

(4) 16

26.  $0.5 - 0.0036 = ?$

(1) 0.4964 (2) 0.4864

(3) 0.4854 (4) 0.4954

27. What per cent of 70 is  $46\frac{1}{5}$  ?

(1) 63

(2) 65

(3) 66

(4) 64

28. The sales tax on the motorcycle is 8%. If the marked price of the motorcycle is Rs. 36000, the selling price including sales tax is :

(1) Rs. 38800

(2) Rs. 38880

(3) Rs. 37880

(4) Rs. 39880

29. The sum of angles of a rhombus is :

(1) 360° (2) 180°

(3) 156° (4) 356°

30. The distance between stations A and B is 1692 km. A train starts from A on Thursday at 8.00 PM and reaches B on Saturday at 8.00 AM. The average speed of the train is :

(1) 47 kmph (2) 37 kmph

(3) 67 kmph (4) 57 kmph

31. The ratio of 250 ml to 2 litres is :

(1) 1 : 3 (2) 1 : 6

(3) 1 : 8 (4) 1 : 9

32. Angle described by a minute hand of a wall clock from 8.00 AM to 8.45 AM will be :

(1) 180° (2) 210°

(3) 120° (4) 270°

33. 15 boys earn Rs. 900 in 5 days. The earning of 20 boys in 7 days will be :

(1) Rs. 1680 (2) Rs. 1600

(3) Rs. 1640 (4) Rs. 1660

34. A value of  $5^2 + 12^2 \times 11^0$  is :

(1) 9 (2) 26

(3) 11 (4) 0

35. The numerator of a fraction is 4 less than the denominator. If 1 is added to both denominator and numerator, the

fraction becomes  $\frac{1}{2}$ . The fraction is :

(1)  $\frac{13}{7}$  (2)  $\frac{3}{7}$

(3)  $\frac{7}{11}$  (4)  $\frac{7}{3}$

36. If eggs are bought at 10 for Rs. 8 and sold at 4 for Rs. 5, the business results in :

(1) 50% loss (2)  $56\frac{1}{4}$ % gain

(3) 51% gain (4)  $56\frac{1}{4}$ % loss

37. 125 metre is  $x\%$  of 750 metre. The value of  $x$  is :

(1) 26.66% (2) 16.33%

(3) 16.66% (4) 66.66%

38. A man sold an article for Rs. 560 and gained 12%. The cost price of the article was :

(1) Rs. 450 (2) Rs. 550

(3) Rs. 400 (4) Rs. 500

39. The number which is not a perfect square is :

(1) 625 (2) 576

(3) 451 (4) 361

40. The arithmetic mean of 13 observations is 14. If the mean of 1st seven observations is 12 and that of last seven observations is 16, the 7th observation is :

(1) 12 (2) 13

(3) 24 (4) 14

41. A's salary is 50% more than that of B's. How much per cent is B's salary less than A's?

- (1)  $33\frac{1}{4}\%$  (2)  $33\frac{3}{4}\%$   
 (3)  $33\frac{1}{2}\%$  (4) 33%

42. When a number is divided by 893, the remainder is 193. What will be the remainder when it is divided by 47?  
 (1) 19 (2) 5  
 (3) 33 (4) None of these
43. A fruit seller buys lemons at 2 for a rupee and sells them at 5 for three rupees. His gain per cent is :  
 (1) 10% (2) 15%  
 (3) 20% (4) 25%
44. If  $x : y = 3 : 4$  then  $(7x + 3y) : (7x - 3y)$  is equal to :  
 (1) 5 : 2 (3) 4 : 3  
 (2) 11 : 3 (4) None of these
45. If  $A : B = 5 : 7$ ;  $C : D = 2A : 3B$  then  $AC : BD$  is :  
 (1) 20 : 38 (2) 50 : 147  
 (3) 10 : 21 (4) None of these
46. If  $A : B = 2 : 3$ ,  $B : C = 4 : 5$  and  $C : D = 6 : 7$ , then  $A : B : C : D$  is :  
 (1) 18 : 24 : 30 : 35  
 (2) 16 : 24 : 30 : 35  
 (3) 16 : 22 : 30 : 35  
 (4) None of these
47. The three numbers are in the ratio of  $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$ . The difference between the greatest and smallest numbers is 36. Find the numbers :  
 (1) 72, 84 and 108  
 (2) 60, 72 and 96  
 (3) 72, 96 and 108  
 (4) None of these
48. The average marks obtained by 15 students including  $x$  are 70 and the average marks obtained by 14 students excluding  $x$  is 68. What is the marks obtained by  $x$  :  
 (1) 78 (2) 98  
 (3) 88 (4) None of these
49. Number of diagonals in a 30 sided convex polygon will be :

- (1) 405 (2) 955  
 (3) 818 (4) 378

50. Two cars start from places A and B, 100 km apart, towards each other. Both cars start simultaneously. A bird sitting on one car starts at the same time towards the other car, and as soon as it reaches the second car, it flies back to the first car and it continues in this manner flying backwards and forwards from one car to the other, until the cars meet. Both cars travel at a speed of 50 kmph and the bird flies at 100 kmph. Total distance covered by the bird will be :  
 (1) 50 km (2) 100 km  
 (3) 200 km (4) None of these

### ENGLISH LANGUAGE

**Directions (51-53) :** Choose the correct passive voice of the sentence given in the question.

51. Is the noise not disturbing the old man ?  
 (1) Is the old man not being disturbed by the noise ?  
 (2) Whether the old man is not being disturbed by the noise?  
 (3) Do the old man not being disturbed by the noise ?  
 (4) Let the old man not be disturbed by the noise.
52. Could they not have helped the needy ?  
 (1) Why can the needy be not helped by them ?  
 (2) Could the needy not have been helped by them ?  
 (3) Could the needy have not been helped by them ?  
 (4) Why could the needy not be helped by them ?
53. Ought we to make any false claims ?  
 (1) Any false claims ought to be made by us.  
 (2) Ought any false claims to be made by us ?  
 (3) Should any false claims to be made by us ?  
 (4) Could any false claims to be made by us ?

**Directions (54-55) :** Change the following sentences into reported speech.

54. I said, "will you stop that noise ?"  
 "No, said the boy."  
 (1) I asked the boy if he would stop that noise and he replied that he would not (stop that noise).  
 (2) I told the boy if he would stop that noise and he said no  
 (3) I said to the boy if he will stop that noise and he said that he would not.  
 (4) I asked the boy whether he would stop this noise and the replied in negative.
55. She said, " how clever I am !".  
 (1) She told that she was very clever.  
 (2) She exclaimed that she was very clever.  
 (3) She applauded herself by saying that she was very clever.  
 (4) She said that how clever was she ?
56. Complete the phrase : 'Burning the candle at both \_\_\_\_\_'.  
 (1) sides (2) ends  
 (3) tips (4) flames
57. Choose the word pair that has the relationship that is most similar to that of the given pair :  
 vexation : disappointment  
 (1) peace : calm  
 (2) felicity : fear  
 (3) brave : coward  
 (4) kind : sympathy
58. The phrase 'a close call' means :  
 (1) to be happily married  
 (2) to be hardhearted  
 (3) to live nearby  
 (4) to have a narrow escape
59. Choose the correct option for the sentence :  
 'Many conjuring tricks depend upon optical \_\_\_\_\_'.  
 (1) delusions  
 (2) allusions  
 (3) illusions  
 (4) resolution
- Directions (60-61) :** In the following sentences one or two words are missing. Pick the choice which fits in best with the sentence :



60. Some people respond to a threat of rejection by becoming \_\_\_\_\_, while others \_\_\_\_\_ and become again like little dependent children :

- (1) concise \_\_\_\_\_ objectify
- (2) militant \_\_\_\_\_ regress
- (3) impulsive \_\_\_\_\_ diminish
- (4) amiable \_\_\_\_\_ procrastinate

61. While the \_\_\_\_\_ goal is to meet the specific learning needs of each child, the long range aim is to develop his ability to assume the \_\_\_\_\_ for his own learning :

- (1) real \_\_\_\_\_ initiative
- (2) supposed \_\_\_\_\_ requirements
- (3) immediate \_\_\_\_\_ responsibility
- (4) apparent \_\_\_\_\_ desire

**Directions (62-63) :** In the following questions four parts of a sentence are given choices (1), (2), (3) and (4) and are in sequence. Select the part which is not acceptable in standard written English.

62. (1) In no circumstances  
(2) will the principal  
(3) permit students  
(4) to be absent

63. (1) The professor  
(2) emphasised on  
(3) the point  
(4) again and again

**Directions (64-65) :** Each of these questions consists of a word given in capital letters followed by four words marked (1), (2), (3) and (4). Choose the word that is most nearly similar in meaning to the word given in capital letters.

64. SOPORIFIC  
(1) Impressive  
(2) Soothing  
(3) Merry  
(4) Lethargic

65. SLOTHFUL  
(1) Fat (2) Lazy  
(3) Stubborn (4) Ignorant

**Directions (66-67) :** In the following questions a word is given in capital letters followed by four words. Choose the word that is most nearly opposite in meaning to the word given in capital letters.

66. POLEMIC

- (1) Friendship
  - (2) Agreement
  - (3) Amity
  - (4) Co-operation
67. FECUND  
(1) Hard  
(2) Unploughed  
(3) Solid (4) Barren

**Directions (68-69) :** Find the one word substitution in the following questions.

68. The act of violating the sanctity of the church is

- (1) Blasphemy (2) Heresy
- (3) Sacrilege
- (4) Desecration

69. A school boy who cuts classes frequently is a

- (1) Defeatist (2) Sycophant
- (3) Truant (4) Martinet

**Directions (70-71) :** In each of the following questions an idiomatic expression and its four possible meanings are given. Find out the correct meaning as your answer.

70. To turn tail  
(1) Shift one's position  
(2) Run away  
(3) In the presence of  
(4) Something concealed

71. To fight tooth and nail  
(1) To fight a losing battle  
(2) To fight purposefully  
(3) To fight cowardly  
(4) To make every possible effort to win

**Directions (72-73) :** Look at the bold part of each sentence. Below each sentence are given three possible substitutions for the bold part. If one of them (1), (2) or (3) is better than the bold part, select that part as your response. If none of the substitutions improves the sentence, choose (4) as your response. Thus a 'no improvement' response will be signified by the digit (4).

72. Make haste lest **you should not be** caught in the storm.

- (1) That you should not be
- (2) You can be
- (3) You should be
- (4) No improvement

73. Just before the commencement of examination, the invigilator advised us **from** copying or indulging in any other malpractices :

- (1) Against (2) Upon
- (3) About
- (4) No improvement

**Directions (74-88) :** Read the passage given below and answer the questions by choosing the best option :

Golf Garden is an old locality, with rows of one-two-or three storey houses, separated by moss covered boundary walls, along which creepers like ivy and 'bougainvillea' had found refuge. The houses, far from holding any (74) interest, (75) conspicuous by their lack of anything not strictly utilitarian. They were simple brick structures, that often (76) right on the edge of the road, the entrances of which were (77) by wrought iron grills or collapsible gates that (78) open anytime a visitor arrived.

There was always something inexplicably (79) about neighbourhoods of this sort. You (80) the same people everyday, in shops and in markets, at the bus stops or in the hair-cutting (81). In this (82), it was not much (83) from any other city neighbourhoods, perhaps. But the coziness came from the (84) that these people - the ones you saw everyday, were not going to leave. The neighbourhood (85) remain the same, (86) so, over the years. Such localities in the city were rare these days. Builders and promoters pounced at every opportunity to (87) old houses and erect towering multi-storied buildings in (88) places.

74. (1) structurally  
(2) design  
(3) architectural  
(4) building

75. (1) were (2) are  
(3) is (4) has

76. (1) arise (2) went  
(3) rose (4) climb

77. (1) held (2) cover  
(3) decorate (4) guarded

78. (1) clashed (2) trickled  
(3) clanged (4) ajar

79. (1) distracting  
(2) frightening  
(3) absorbing  
(4) comforting

80. (1) meet (2) will meet  
 (3) have met (4) met
81. (1) boutique (2) salon  
 (3) room (4) aperture
82. (1) series (2) business  
 (3) style (4) respect
83. (1) diffident (2) different  
 (3) diverse (4) changed
84. (1) assurance (2) insurance  
 (3) reassurances  
 (4) remembrance
85. (1) must (2) should  
 (3) can (4) would
86. (1) inevitably  
 (2) unvaryingly  
 (3) invariably  
 (4) inaudibly
87. (1) create (2) end  
 (3) demolish (4) extinguish
88. (1) there (2) this  
 (3) it's (4) their

**Directions (89-98) :** Read the following passage carefully and answer the questions.

The window of my room overlooks the road. The child had seated herself at my feet near my table, and was playing softly drumming on her knees. I was hard at work on my seventeenth chapter, where Protrap Singh, the hero, had just caught Kanchanlata, the heroine, in his arms, and was about to escape with her by the third storey window of the castle, when all of a sudden Mini left her play, and ran to the window, crying, "A Cabuliwallah!" a Cabuliwallah! Sure enough in the street below was a Cabuliwallah, passing slowly along. He wore the loose soiled clothing of his people, with a tall turban; there was a bag on his back and he carried boxes of grapes in his hand.

I cannot tell what were my daughter's feelings at the sight of this man, but she began to call him loudly "Ah" I thought, "he will come in, and my seventeenth chapter will never be finished!" At which exact moment the Cabuliwallah turned, and looked up at the child. When she saw this, overcome by terror, she fled to her mother's protection, and disappeared. She had a blind belief that inside the bag, which the big man carried, there were perhaps two or three other children like herself. The pedlar meanwhile entered my doorway, and greeted me with a smiling face.

So precarious was the position of my hero and my heroine, that my first impulse was to stop and buy something, since the man had been called. I made some small purchases, and a conversation began about Abdurrahman, the Russians, the English, and the Frontier Policy.

As he was about to leave, he asked: "And where is the little girl, sir?" And I, thinking that Mini must get rid of her false fear, had her brought out.

She stood by my chair, and looked at the Cabuliwallah and his bag. He offered her nuts and raisins, but she would not be tempted, and only clung the closer to me, with all her doubts increased.

This was their first meeting. One morning, however, not many days later, as I was leaving the house, I was startled to find Mini, seated on a bench near the door, laughing and talking, with the great Cabuliwallah at her feet. In all her life, it appeared; my small daughter had never found so patient a listener, save her father. And already the corner of her little sari was stuffed with, almonds and raisins, the gift of her visitor. "Why did you give her those?" I said, and taking out an eight-anna bit, I handed it to him. The man accepted the money without demur, and slipped it into his pocket.

Alas, on my return an hour later, I found the unfortunate coin, had made twice its own worth of trouble! For the Cabuliwallah had given it to Mini, and her mother catching sight of the bright round object, had pounced on the child with: "Where did you get that eight-anna bit?"

"The Cabuliwallah gave it to me," said Mini cheerfully.

89. The word 'soiled', in the passage, means :
- (1) Dirty  
 (2) Lying on the floor  
 (3) Brown colour  
 (4) In the soil

90. Find out the word which means "a travelling trader who sells small goods" from the passage :

- (1) Raisins (2) Pedlar  
 (3) Russians (4) Turban

91. The word 'precarious' in the passage, means :

- (1) Very good (2) Romantic  
 (3) Uncertain  
 (4) Caring

92. Find out the phrase which means "without hesitating" from the passage :

- (1) Without demur  
 (2) False fear  
 (3) Rid of her false fear  
 (4) Would not be tempted

93. Mini was afraid of Cabuliwallah because she thought there were \_\_\_\_\_ in his bag :

- (1) Guns (2) Children  
 (3) Monkey (4) Snakes

94. The author was \_\_\_\_\_ to find Mini laughing and talking with the Cabuliwallah :

- (1) Surprised (2) Happy  
 (3) Sad (4) Afraid

95. Why was Mini's mother angry?

- (1) Because Mini was talking with Cabuliwallah  
 (2) Because Mini had eight-anna bit  
 (3) Because Mini ate raisins and almonds  
 (4) Because Mini did not go to school

96. When did Mini's father come back home?

- (1) After two days  
 (2) After two hours  
 (3) In the evening  
 (4) After one hour

97. The author was writing the seventeenth chapter where the hero was :

- (1) Cabuliwallah  
 (2) Protrap Singh  
 (3) Abdurrahman  
 (4) A Russian

98. How did the author feel when Mini said "The Cabuliwallah gave it to me?"

- (1) Relieved (2) Satisfied  
 (3) Happy (4) Awed

**Directions (99-100) :** Give one word for the bold printed phrase.

99. My bedroom is **warm and comfortable**.

- (1) Neat (2) Untidy  
 (3) Cosy (4) Quietful

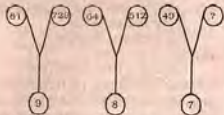
100. Diana **spoke in a quiet voice** to her friend.

- (1) Yelled (2) Whispered  
 (3) Jumped (4) Called



**GENERAL INTELLIGENCE**

101. Which one number can be placed at the sigh of interrogation ?



- (1) 343 (2) 444  
(3) 515 (4) 373

**Directions (102-106) :** Study the following information carefully and answer these questions :

P, G, R, S, T, W and Z are seven students studying in three different institutes A, B and C. There are three girls among the seven students who study in each of the three institutes. Two of the seven students study BCA, two study Medicine and one each studies Aviation Technology, Journalism and MBA. R studies in the same college as P who studies MBA in college B. No girl studies Journalism or MBA. T studies BCA in college A and his brother W studies Aviation Technology in college C. S studies Journalism in the same college as Q. Neither R or Z studies BCA. The girl who studies BCA does not study in college C.

102. Which of the following pairs of students study medicine?  
(1) RZ (2) WZ  
(3) PZ  
(4) None of these
103. In which college does Q study ?  
(1) A (2) B  
(3) C  
(4) Data Inadequate
104. In which of the colleges do three of them study ?  
(1) A (2) B  
(3) C  
(4) A and B
105. What is the field of study of Z ?  
(1) BCA (2) Medicine  
(3) MBA  
(4) Aviation Technology
106. Which of the following three represents girls ?  
(1) SQR (2) SQZ  
(3) QRZ  
(4) None of these

**Directions (107-108) :** In each of the following number series, a wrong number is given, find out the number.

107. 2180, 360, 69, 18, 6, 3  
(1) 69 (2) 18  
(3) 360 (4) 6
108. 7, 8, 18, 57, 228, 1165, 6996  
(1) 57 (2) 1165  
(3) 228  
(4) None of these
109. If ONE = 9, TWO = 9, THREE = 25. Then 'ELEVEN' = :  
(1) 36 (2) 25  
(3) 16 (4) 49
110. If A is the father of B and B is the mother of C and C is the daughter of D, then what is the relation between A and D?  
(1) Son-in-Law  
(2) Father-in-Law  
(3) Sister-in-Law  
(4) Brother-in-Law

**Directions :** Study the logic of the statement given and from the given choices, select the choice with closest logical similarity.

111. When water meets an obstacle, it flows around it and continues onward :  
(1) Knowledge must be sound  
(2) Flexibility is important for progress  
(3) Cool minded people succeed most  
(4) Obstacles must be overcome

**Directions (112-115) :** Fifty books belonging to different subjects viz History (8), Geography (7), Literature (13), Psychology (8), Science (14) are placed on a shelf. They are arranged in an alphabetical order subject to condition that no two books of same subject are placed together so long as the books of other subjects are available, unless otherwise mentioned all counting is done from left.

112. How many pairs (Science and Literature book respectively) are placed together on the shelf?  
(1) 5 (2) 4  
(3) 6  
(4) None of these
113. How many pairs (Science and Geography book respectively) are placed together on the shelf ?

- (1) 5  
(2) 6  
(3) 7  
(4) None of these

114. The last book of History is placed at what position from right ?  
(1) 12th (2) 13th  
(3) 15th (4) None of these
115. What is the position of History-ry book which comes immediately after science book:  
(1) 32nd (2) 33rd  
(3) 36th (4) None of these
116. If GANDHI is coded as 123456 and JAM is coded as 728. Then JAIHIND will be coded as :  
(1) 7265634 (2) 7263456  
(3) 7265728 (4) 6345672

**Directions :** This question is followed by two statements. Select a choice as follows.

- A. If I alone is sufficient to answer the question.  
B. If II alone is sufficient to answer the question.  
C. If I and II are both required to answer the question.  
D. If both I and II are not sufficient to answer the question and more data is required.

117. 5,000 candidates appeared for the Central Services examination. What percentage of women candidates passed the examination?  
I. 357 women candidates passed the examination  
II. 4050 male candidates appeared for the exam  
(1) A (2) B  
(3) C (4) D

**Directions (118-119) :** If TEMPERATURE is coded as 45685714975 then answer the following questions using this code.

118. METER will be coded as :  
(1) 54657 (2) 65487  
(3) 65457 (4) 65451
119. The most likely code for ATTEMPT is :  
(1) 1455684 (2) 1558463  
(3) 1445684 (4) 1358645
120. In the following series how many consonants come before 9?  
9 A 9 F 4 T 7 U 9 S 9 T T 9 J J  
3 4 5 9 D X 9 X Z 9 T 9 H  
(1) 7 (2) 6  
(3) 5 (4) None of these

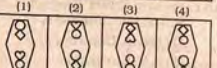
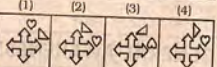
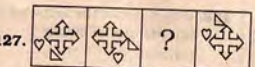
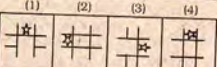
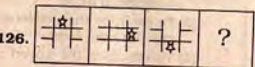
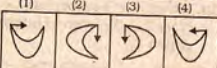
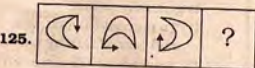
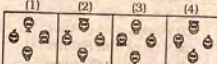
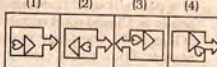
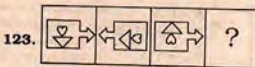
121. In the following series how many consonants come before?  
3 A 3 F 4 T 7 U 3 S 3 T T 3 J J 3 4 5 3 D X 3 X Z 3 T 3 H

- (1) 7 (2) 6  
(3) 5 (4) None of these

Directions (122-128) : Complete the Series in the following figures.

Question Figures :

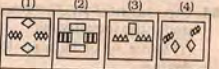
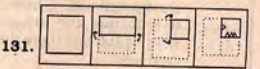
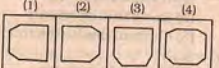
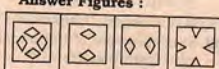
Answer Figures :



Directions (129-131) : In these questions a piece of paper is folded and then cut as shown below. The dotted lines shown are the portion which have been folded. The curve arrow shows the directions of the portion cut. From the given responses beneath the figure show the number of portions cut. The opening is in the same order as folding.

Question Figures :

Answer Figures :



Directions (132-135) : Anil is the son of Bina. Chitra, who is Bina's sister has a son Deepak and a daughter Ela. Fateh is the maternal uncle of Deepak.

132. How is Anil related to Deepak ?

- (1) Cousin (2) Brother  
(3) Nephew (4) Uncle

133. How is Ela related to Fateh ?

- (1) Sister (2) Wife  
(3) Daughter (4) Niece

134. How many nephews does Fateh have ?

- (1) Nil (2) 3  
(3) 1 (4) 2

135. How is Fateh related to Bina's daughter ?

- (1) Paternal Uncle  
(2) Maternal Uncle  
(3) Nephew  
(4) Data Inadequate

Directions (136-141) : For answering questions, study the diagram which is represented as follows and select the appropriate choice.

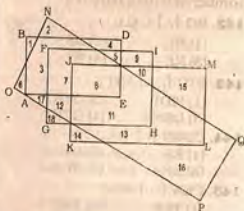
ABDE represents Artists

FGHI represents Scientists

JKLM represents Administrators

tors

OPQN represents healthy people



136. Artists who are scientist and administrator and who are healthy are represented by :

- (1) 11 (2) 5  
(3) 7 (4) 8

137. Scientists who are administrators but not healthy are represented by :

- (1) 15 (2) 12  
(3) 14 (4) 10



138. Scientists who are also artists but in not good state of health belong to the area :

- (1) 4 (2) 5  
(3) 9 (4) 10

139. Persons in area 7 are:

- (1) Artists who are scientists and healthy  
(2) Artists who are scientists but not healthy  
(3) Scientists who are healthy  
(4) Artists who are healthy

140. Select the choice which contains only non healthy group areas :

- (1) 5, 10, 14 (2) 1, 3, 4  
(3) 14, 18, 6 (4) 4, 15, 16

141. Select the true statement

- (1) A person who is administrator scientist and artist is definitely healthy  
(2) All scientists are healthy  
(3) All artists who are scientists are healthy  
(4) All administrators who are scientists are healthy

**Directions (142-145) :** In the following questions select the choice of letters which completes the first word and begins the second. The letters in the bracket end the first word and begin the second. Number of dots in bracket indicate number of letters required.

142. BO (...) CALL :

- (1) NE (2) SS  
(3) RE (4) WL

143. STU (...) 1ST :

- (1) PIDT (2) DYST  
(3) DENT (4) UCKT

144. CORN (...) RATIC :

- (1) ES (2) ET  
(3) ER (4) ST

145. CEN (...) ND :

- (1) TER (2) TRE  
(3) AME (4) PRE

**Directions (146-147) :** Find the missing term in each of the following number series.

146. 4, 2, 6, 8, 3, 9, 8, 4, 12, 10, 5, ?

- (1) 15 (2) 20  
(3) 10 (4) 5

147. 3, 4, 12, 48, 4, 5, 20, 100, 5, 6, 30, 180, 6, 7, 42, ?

- (1) 304 (2) 298  
(3) 294

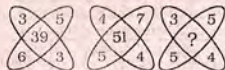
148. If all the letters in the English alphabet are written in reverse order, which letter is exactly in the middle of 20th letter from right and 21st letter from left ?

- (1) O (2) N  
(3) M  
(4) None of these

149. There are some boys and cows at a place. If total number of heads is 15 and total number of legs is 46, then how many boys and how many cows are there ?

- (1) 8 boys and 7 cows  
(2) 9 boys and 6 cows  
(3) 7 boys and 8 cows  
(4) 6 boys and 9 cows

150. Which one number can be placed at the sign of interrogation ?



- (1) 25 (2) 47  
(3) 37  
(4) None of these

## GENERAL AWARENESS

151. Present Chief Election Commissioner of India is :

- (1) Navin Chawla  
(2) S.Y. Quraishi  
(3) V.S. Sampath  
(4) None of these

152. World's largest camel fair is organized in :

- (1) Rajasthan, Jaipur  
(2) Rajasthan, Bikaner  
(3) Rajasthan, Pushkar  
(4) Rajasthan, Udaipur

153. Shigmo is one of the prominent festival of the :

- (1) Tamil Community  
(2) Santhali Community  
(3) Konkani Hindu Community  
(4) Muslim Community

154. Department of 'AYUSH' comes under the ministry of :

- (1) Ministry of Human Resources

(2) Ministry of Health & Family Welfare

(3) Ministry of Defence

(4) Ministry of Home Affairs

155. How many teams participated in IPL-2013 :

- (1) 9 (2) 8  
(3) 7 (4) 10

156. Arrange the following devices in ascending order of the speed :

- A. RAM  
B. Hard disk  
C. Cache  
D. Floppy  
(1) DBAC (2) BDAC  
(3) BADC (4) ABDC

157. The outer part of a railway track near the bend or a curve is generally raised :

- (1) To prevent the fast wear and tear of railway track  
(2) To produce the necessary centripetal force  
(3) To produce the necessary gravitational force  
(4) To enhance the speed of the train

158. Which one of the following is hot the unit of energy ?

- (1) Joule  
(2) Newton-metre  
(3) Kilowatt  
(4) Kilowatt-hour

159. As per the monetary policy of Reserve Bank of India, announced in 2011. The reverse Repo rate till RBI decides to de-link it :

- (1) Will be announced separately and will be linked to repo rate  
(2) Will not be announced separately and will be linked to repo rate  
(3) Will not be announced separately and will be linked to repo rate and will always be 100 bps below the repo rate  
(4) Will not be announced separately and will be linked to repo rate and will always be 100 bps above the repo rate



160. During summer days, water kept in an Earthen pot (Pitcher) becomes cool because of phenomenon of :  
 (1) Diffusion  
 (2) Transpiration  
 (3) Osmosis  
 (4) Evaporation
161. There is a temperature at which degree Fahrenheit and degree-centigrade have the same numerical value. This numerical value is :  
 (1)  $-32^{\circ}$  (2)  $-40^{\circ}$   
 (3)  $0^{\circ}$  (4)  $32^{\circ}$
162. The-smallest functional unit of kidney is :  
 (1) Neuron  
 (2) Nephron  
 (3) Air Sac  
 (4) Ovaries
163. What is the salary of ex-officio chairman of Rajya Sabha :  
 (1) ₹ 1,25,000  
 (2) ₹ 1,50,000  
 (3) ₹ 1,00,000  
 (4) None of these
164. Smallest & Largest planet of solar system is 'respectively' :  
 (1) Mercury & Uranus  
 (2) Neptune & Jupiter  
 (3) Mars & Saturn  
 (4) Mercury & Jupiter
165. The First session of Indian National Congress was held in :  
 (1) Bombay (2) Delhi  
 (3) Calcutta (4) Bangalore
166. How many members are nominated by president to represent the Anglo Indian community :  
 (1) 2 (2) 5  
 (3) 12 (4) 3
167. Which incident led Gandhiji to call off non cooperation movement :  
 (1) Kakori Incident  
 (2) Chauri Choura incident  
 (3) Jallianwala Bagh Massacre  
 (4) None of these
168. Who among the following was the first woman ruler of India:

- (1) Razia Sultana  
 (2) ChandBibi  
 (3) Nurjahan  
 (4) Mumtaj Mahal
169. Which Mughal emperor imposed Jaziya on Hindus and encouraged the Hindus to convert to Islam :  
 (1) Shahjahan  
 (2) Jehangir  
 (3) Aurangzeb  
 (4) Akbar
170. The Earth comes nearest to the sun in :  
 (1) July  
 (2) September  
 (3) December  
 (4) February
171. 2015, ICC Cricket World Cup will be hosted by :  
 (1) Australia  
 (2) New-Zealand  
 (3) West-Indies  
 (4) Both(1)&(2)
172. Barack H. Obama has been recently reelected as President of USA, defeating republican challenger :  
 (1) Joe Biden  
 (2) Mitt Romney  
 (3) Jesse Kelly  
 (4) Kelving McCarthy
173. Russia is expected to supply Admiral Gorshkov by 2013 end. What is "Admiral Gorshkov" :  
 (1) Rifles  
 (2) Aircraft Carrier  
 (3) Tank  
 (4) Space craft
174. Bhopal Gas tragedy is associated with leakage of :  
 (1) Sulphur Dioxide  
 (2) Carbon dioxide  
 (3) Methyl ISO cyanate  
 (4) Nitrogen dioxide
175. Headquarters of UNO are situated at :  
 (1) New York, USA  
 (2) Hague (Netherlands)  
 (3) Geneva  
 (4) Paris

176. Kathak, Naumtangi and Kajari are art form of :  
 (1) Uttaranchal  
 (2) Uttar Pradesh  
 (3) Jharkhand  
 (4) Chhattisgarh
177. Leonardo da Vinci :  
 (1) was a great Italian painter, sculptor and architect  
 (2) got universal fame from his masterpiece "Monalisa"  
 (3) drew models of organs such as the heart, lungs and womb  
 (4) All of these
178. National Anthem was first sung on :  
 (1) December 27, 1911 during the Indian National Congress Session at Calcutta  
 (2) January 24, 1950 by the Constituent Assembly of India  
 (3) January 26, 1959 by the Government of India  
 (4) None of these
179. ISRO recently cleared a frequency band from satellite to be used for internet on trains:  
 (1) KUBand (2) SBand  
 (3) C Band  
 (4) None of these
180. The National Development Council has approved recently the 12th five year plan and set an annual average growth target of :  
 (1) 8.2% (2) 9%  
 (3) 10% (4) 11%
181. India on Oct-4, 2012 successfully test fired nuclear capable Prithvi-II ballistic missile from a test range at Balasore. This was a :  
 (1) Surface to Surface Missile  
 (2) Air to Surface Missile  
 (3) Air to Air Missile  
 (4) Surface to Air Missile
182. Rath Yatra This famous festival is held in :  
 (1) Tamilnadu  
 (2) Karnataka  
 (3) Odhisha  
 (4) West Bengal

163. The world's cheapest computer 'Aakash', which has the potential to revolutionize educational access in developing world, is manufactured by :
- (1) IBM
  - (2) HCL
  - (3) Data Wind
  - (4) Intel
164. With the 92nd constitutional amendment, how many new languages were added to the 8th schedule of the constitution:
- (1) 2
  - (2) 5
  - (3) 4
  - (4) 3
165. The lowest layer of atmosphere, extending upto 10 miles in the tropics, is called the :
- (1) Stratosphere
  - (2) Tropopause
  - (3) Troposphere
  - (4) Mesosphere
166. The chipko Andolan is associated with :
- (1) Tigers
  - (2) Trees
  - (3) Fevicol
  - (4) Cleaning of Ganga
167. The river water is polluted with acidic wastes if pH of water is :
- (1) Below 7
  - (2) Above 7
  - (3) Equal to 7
  - (4) Any one of these
168. India is progressing in technological development and planning Mangalyaan mission in 2013. If India's mission goes successful, it would become the .... doing so :
- (1) Fourth Nation
  - (2) Third Nation
  - (3) Second Nation
  - (4) Fifth Nation
169. Who was named AIFF (All India football federation) player of the year 2012 ?
- (1) Subrata Paul
  - (2) Gouramangi Singh
  - (3) Sunil Chhetri
  - (4) Syed Rahim Nabi

190. How many gold medals were won by India at Copa Brasil-2012 Tournament for wrestling ?
- (1) Six
  - (2) Eight
  - (3) Nine
  - (4) Seven
191. Dr Mantek Singh Ahluwalia said that the term "Bimaru" states should be done away with. Which states was/were termed as Bimaru states ?
- (1) Bihar, Uttar Pradesh
  - (2) Bihar, Jharkhand, Uttar Pradesh, Madhya Pradesh
  - (3) Bihar, Madhya Pradesh, Rajasthan, Uttar Pradesh
  - (4) Bihar
192. When Rongali bihu is celebrated :
- (1) In the month of April
  - (2) In the Month of October
  - (3) In the Month of January
  - (4) In the Month of December
193. The International Kite festival is one of the most colorful events of which state of India?
- (1) Bihar
  - (2) Uttar Pradesh
  - (3) Gujarat
  - (4) Rajasthan
194. Consider the London Olympics held recently. Identify the wrong match :
- (1) Yogeshwar Dutt-Silver in Wrestling
  - (2) Vijay Kumar-Silver in Shooting
  - (3) Saina Nehwal-Bronze in Badminton
  - (4) Gagan Narang-Bronze in Shooting
195. Which country recently elected its first woman president in December 2012 ?
- (1) North Korea
  - (2) South Korea
  - (3) Japan
  - (4) China
196. What is Basel III norms :
- (1) The Global Capital norms for Banks
  - (2) The Global Pollution Norms for Auto Manufacturer

- (3) The Global Norms for Cyber World
  - (4) The Global Pollution Norms for Heavy Industries
197. Uday an intensive five year programme is launched by public health foundation of India. This is initially focused for improving outcomes for people with.
- (1) Cancer
  - (2) TB
  - (3) Diabetes and high blood pressure
  - (4) Neurological diseases
198. Santhali language is chiefly spoken by more than six million people in India. Apart from the states of Bihar & Jharkhand, it is also spoken in the state of :
- (1) Assam, Orissa, West Bengal & Tripura
  - (2) Uttar Pradesh & Rajasthan
  - (3) Haryana, Jammu and Kashmir
  - (4) Himachal & Jammu and Kashmir
199. Ebb & flow is :
- (1) A Missile recently launched from Odisha
  - (2) A gravity mapping satellites of NASA
  - (3) A discovery of new star
  - (4) A system of Measurement of liquid
200. Which of the following countries has become first to pass Climate Act ?
- (1) Australia
  - (2) Germany
  - (3) Canada
  - (4) USA