

1. Beating of a drum can be termed as which of the following type of motion
  - (1) Periodic motion
  - (2) Rectilinear motion
  - (3) Rotatory motion
  - (4) Circular motion
2. In ..... an object moves such that its distance from a fixed point remains the same
  - (1) Translatory motion
  - (2) Rectilinear motion
  - (3) Circular motion
  - (4) Curvilinear motion
3. Motion of pendulum of a clock is
  - (1) oscillatory motion
  - (2) periodic motion
  - (3) Both (1) & (2)
  - (4) Random motion
4. While in motion a train exhibits
  - (1) Translatory motion
  - (2) Rectilinear motion
  - (3) Periodic motion
  - (4) None of the above
5. Long shadows with different position are found when sun is low at western horizon in
  - (1) Afternoon
  - (2) Noon
  - (3) Late afternoon
  - (4) Sunset
6. The light from the Sun reaches the earth in
  - (1) 8.33 min
  - (2) 8.33 sec
  - (3) 18.33 min
  - (4) 88.33 min
7. Rectilinear propagation of light means
  - (1) Light travels in straight line
  - (2) Light travel in curved path
  - (3) Light travel in zig-zag path
  - (4) Light travel in circular path
8. Edison cell is a
  - (1) Primary cell
  - (2) Secondary cell
  - (3) A and B both
  - (4) None of these
9. Filament of bulb should be
 

(1) Insulator	(2) Conductor
(3) May insulator	(4) None of these
10. How many electrons constitute current of one micro ampere ?
  - (1)  $6.25 \times 10^{12}$
  - (2)  $6.25 \times 10^{18}$
  - (3)  $2.65 \times 10^{12}$
  - (4)  $6.56 \times 10^{18}$
11. According to law of magnets. "Unlike poles ..... each other and like poles ..... each other.
  - (1) Repel, Attract
  - (2) Attract, Attract
  - (3) Attract, Repel
  - (4) Repel, Repel
12. When a North pole of a bar magnet is brought near the north pole of a freely suspended magnetic needle, then it ..... each other.
  - (1) Attracts
  - (2) Repels
  - (3) Neither attracts nor repels
  - (4) None of these
13. What is the true test of magnetism ?
  - (1) Attraction
  - (2) Rotation
  - (3) Repulsion
  - (4) None
14. Why is woolen yarn stronger than cotton yarn?
  - (1) More fibres twisted together to make woolen yarn
  - (2) Animal fibre is always stronger
  - (3) Less fibres twisted together to make woolen yarn
  - (4) Both (2) & (3)
15. Silk fibre is obtained from :
  - (1) fruit of a plant
  - (2) bark of a plant
  - (3) cocoon of worm
  - (4) hair of an animal
16. Examples of synthetic fibres are :
  - (1) rayon and wool
  - (2) silk and polyester
  - (3) nylon and polyester
  - (4) silk and wool.
17. Sorter's disease is caused by
 

(1) silkworm	(2) puppa
(3) anthrax	(4) sheep
18. Mustard oil and kerosene are the examples of in water liquids.
 

(1) miscible	(2) immiscible
(3) viscous	(4) sticky

- |  |  |
|--|--|
| <p>19. Sugar and common salt can be dissolved in<br/>         (1) sand<br/>         (2) water<br/>         (3) air<br/>         (4) all of these</p> <p>20. Filtration is a method to separate the components of a<br/>         (1) solution<br/>         (2) mixture of a liquid and an insoluble substance<br/>         (3) both (1) and (2)<br/>         (4) pure substance</p> <p>21. Threshing is done by<br/>         (1) beating<br/>         (2) bullocks<br/>         (3) machines<br/>         (4) all of these</p> <p>22. Which method is used to separate pebbles and stones from sand<br/>         (1) handpicking<br/>         (2) Winnowing<br/>         (3) Sieving<br/>         (4) Any of these</p> <p>23. Dissolving sugar in water is a/an<br/>         (1) Irreversible change<br/>         (2) Chemical change<br/>         (3) Reversible change<br/>         (4) None of these</p> <p>24. Carbon dioxide turns lime water<br/>         (1) Pink<br/>         (2) Yellow<br/>         (3) Milky<br/>         (4) Red</p> <p>25. Which gas in the atmosphere is essential for respiration?<br/>         (1) Oxygen<br/>         (2) Nitrogen<br/>         (3) Carbon dioxide<br/>         (4) Argon</p> <p>26. The gas which is called green house gas is:<br/>         (1) oxygen<br/>         (2) nitrogen<br/>         (3) carbon dioxide<br/>         (4) argon</p> <p>27. Animals which eat both plants and flesh of other animals are called<br/>         (1) herbivores<br/>         (2) carnivores<br/>         (3) omnivores<br/>         (4) sanguinivores</p> | <p>28. Human beings are<br/>         (1) herbivores<br/>         (2) carnivores<br/>         (3) omnivores<br/>         (4) decomposers</p> <p>29. Starch can be tested by using<br/>         (1) iodine solution<br/>         (2) caustic soda<br/>         (3) copper sulphate<br/>         (4) Fehling's solution</p> <p>30. Which of the following are 'energy-giving foods'?<br/>         (1) Fats<br/>         (2) Carbohydrates<br/>         (3) Both (1) &amp; (2)<br/>         (4) None of these</p> <p>31. The plant which has reticulate venation is<br/>         (1) bamboo<br/>         (2) sugarcane<br/>         (3) rose<br/>         (4) lily</p> <p>32. The leaves get rid of excess water from the plant through<br/>         (1) transpiration<br/>         (2) photosynthesis<br/>         (3) respiration<br/>         (4) pollination</p> <p>33. The skeleton which covers the body from the outside is called<br/>         (1) endoskeleton<br/>         (2) exoskeleton<br/>         (3) both of these<br/>         (4) none of these</p> <p>34. The shoulder joints and hip joints are<br/>         (1) ball and socket joints<br/>         (2) pivotal joints<br/>         (3) hinge joints<br/>         (4) gliding joints</p> <p>35. When you are pricked with a pin, you will draw out your hand very fast. Here, what is the stimulus?<br/>         (1) Drawing out hand<br/>         (2) Pricking with a pin<br/>         (3) Pin<br/>         (4) Hand</p> <p>36. In the comparison of living things and nonliving things, which of the following statement is wrong?<br/>         (1) Both are made of molecules<br/>         (2) Both are collection of many atoms<br/>         (3) Both responds to stimuli<br/>         (4) Both have mass and occupy space</p> |
|--|--|

37. The number of forms of water is  
 (1) One  
 (2) Two  
 (3) Three  
 (4) Four
38. Which of these is responsible for the formation of clouds?  
 (1) Condensation  
 (2) Respiration  
 (3) None of these  
 (4) Transpiration
39. Leaves falling from trees should be  
 (1) dumped in landfill areas  
 (2) dried and burnt  
 (3) used in making compost  
 (4) dumped near the ponds and lakes
40. Which is not a part of a leaf?  
 (1) Petiole  
 (2) Lamina  
 (3) Veins  
 (4) Nodes
41. In the International Place Value chart, starting from the right, the first three places form the  
 (1) ones period  
 (2) tens period  
 (3) thousands period  
 (4) millions period
42. The place value of 3 in the number 43,26,701 is -  
 (1) 1,00,000  
 (2) 3,00,000  
 (3) 3  
 (4) 30
43. The digit whose place value always remains fixed is -  
 (1) 1  
 (2) 2  
 (3) 3  
 (4) 0
44.  $143 \times 22 + 143 \times 8 =$   
 (1) 4,290  
 (2) 4,480  
 (3) 5,290  
 (4) 6,260
45.  $12345 \times 15 - 2469 \times 25 =$   
 (1) 1,43,350  
 (2) 1,24,460  
 (3) 1,22,420  
 (4) 1,23,450
46.  $92785 \times 98 + 92785 \times 2 =$   
 (1) 92,88,400  
 (2) 92,78,500  
 (3) 92,68,300  
 (4) 92,78,100
47. Which of the following numbers is not a factor of 68?  
 (1) 2  
 (2) 4  
 (3) 17  
 (4) 6.
48. Which of the following numbers is not a factor of 36?  
 (1) 2  
 (2) 4  
 (3) 18  
 (4) 8.
49. Which of the following numbers is not a factor of 24?  
 (1) 2  
 (2) 3  
 (3) 4  
 (4) 5.
50. How many points are enough to fix a line?  
 (1) 1  
 (2) 2  
 (3) 3  
 (4) 4
51. Two intersecting lines intersect in  
 (1) 1 point  
 (2) 2 points  
 (3) 3 points  
 (4) 4 points
52. How many lines can pass through one given point?  
 (1) 1  
 (2) 2  
 (3) 4  
 (4) Countless
53. Which solid does not have any square faces?  
 (1) Cube  
 (2) Cuboid  
 (3) Cone  
 (4) Square pyramid
54. Cricket ball is an example of a  
 (1) Cube  
 (2) Cylinder  
 (3) Cone  
 (4) Sphere

55. The angle between two opposite rays is  
 (1) right  
 (2) obtuse  
 (3) acute  
 (4) straight
56. Which sum is not negative?  
 (1)  $-38 + (-24)$   
 (2)  $-61 + 43$   
 (3)  $-53 + 72$   
 (4)  $-25 + 0$
57. The sum of two integers is 45. If one of them is  $-23$ , the other is:  
 (1) 68  
 (2) 22  
 (3)  $-68$   
 (4)  $-22$
58. If  $p$  and  $q$  are two integers such that  $p$  is the predecessor of  $q$ , then  $p - q$  is equal to  
 (1) 1  
 (2) 0  
 (3) 2  
 (4)  $-1$
59. Four pizzas are to be equally shared among 5 children. What is each child's share?  
 (1)  $\frac{5}{4}$  (2)  $\frac{1}{4}$   
 (3)  $\frac{1}{5}$  (4)  $\frac{4}{5}$
60. What fraction of numbers from 1 to 15 are prime numbers.  
 (1)  $\frac{8}{15}$  (2)  $\frac{7}{15}$   
 (3)  $\frac{6}{15}$  (4)  $\frac{9}{15}$
61. Which denominator makes the fraction  $\frac{2}{9}$  and  $\frac{6}{\square}$  equivalent?  
 (1) 27 (2) 3  
 (3) 54 (4) 81
62. The weight of a basket ball is about 600000 mg. It is :  
 (1) less than 600 g (2) greater than 600g  
 (3) equal to 600g (4) none of these
63. Which decimal number is greater than  $\frac{3}{4}$ ?  
 (1) 0.5  
 (2) 0.85  
 (3) 0.73  
 (4) 0.75
64. When 0.02 is written as a fraction in the simplest form, the sum of the numerator and denominator is:  
 (1) 12  
 (2) 21  
 (3) 51  
 (4) 100
65. Final marks of 20 students are as follows:  
 53, 61, 48, 60, 78, 68, 55, 100, 67, 90, 75, 88, 77, 37, 84, 58, 60, 48, 62, 56  
 What is the lowest score?  
 (1) 37  
 (2) 100  
 (3) 62  
 (4) 48
66. Find the average of first 5 prime numbers  
 (1) 5  
 (2) 6  
 (3) 7.6  
 (4) 5.6
67. The average of first five multiples of 2 is  
 (1) 3  
 (2) 5  
 (3) 6  
 (4) 8
68. Find the area of square having perimeter 20 cm.  
 (1)  $5 \text{ cm}^2$  (2)  $10 \text{ cm}^2$   
 (3)  $20 \text{ cm}^2$  (4)  $25 \text{ cm}^2$
69. A regular polygon having  $n$  side perimeter  $m$  unit, then length of each side of polygon is:  
 (1)  $mn$  unit (2)  $\frac{m}{n}$  unit  
 (3)  $\frac{n}{m}$  unit (4) can't be determine
70. Rectangle having length  $l$  unit and perimeter  $p$  unit then its breadth is :  
 (1)  $\frac{p}{l}$  unit (2)  $\frac{p}{2} - l$  unit  
 (3)  $\frac{p}{2} + l$  unit (4)  $\frac{l}{p}$  unit

71. The algebraic expression of the statement 'product of numbers a and b subtracted from 7' is :
- (1)  $ab - 7$   
 (2)  $7 - ab$   
 (3)  $ab$   
 (4)  $7ab$
72. The coefficient of r of  $2pqr$
- (1) 2  
 (2)  $pq$   
 (3)  $2pq$   
 (4)  $2pqr$
73. Write  $2 \times p \times p \times p \times q \times q$  in exponential form
- (1)  $2pq$   
 (2)  $2p^3q^2$   
 (3)  $2p^2q^2$   
 (4)  $2p^3q^3$
74. A scooter travels 60 km in 2 hours. How long will it take to travel 300 km ?
- (1) 5 hr.  
 (2) 8 hr.  
 (3) 10 hr.  
 (4) 12 hr.
75. The length and breadth of rectangle are 45cm and 30cm find the ratio of breadth to length.
- (1) 2 : 3  
 (2) 3 : 2  
 (3) 5 : 3  
 (4) 3 : 5
76. Find the ratio of 5 days to 60 hours.
- (1) 1 : 2  
 (2) 12 : 1  
 (3) 1 : 12  
 (4) 2 : 1
77. Which of the following letters does not have any line symmetry ?
- (1) H  
 (2) V  
 (3) Z  
 (4) I
78. A rhombus is symmetrical about :
- (1) each of its diagonals  
 (2) the line joining the midpoints of opposite sides  
 (3) perpendicular bisector of each of the sides  
 (4) None of these
79. How many lines of symmetry does a rectangle have?
- (1) 1  
 (2) 2  
 (3) 4  
 (4) None
80. How many lines of symmetry does a butterfly have?
- (1) 1  
 (2) 2  
 (3) 0  
 (4) 3
81. Amit walks 2 km South, turned right and walked 1 km, again turned North and walked 5 km, turned East and walked 5 km. How far is he from the starting point -
- (1) 3 km  
 (2) 7 km  
 (3) 5 km  
 (4) 6 km
82. As 'Table' is related to 'Wood' in the same way as 'Shirt' is related to -
- (1) Cotton  
 (2) Cloth  
 (3) Dress  
 (4) Uniform
83. 'Go' is related to 'Come' in the same way as 'High' is related to -
- (1) Above  
 (2) Low  
 (3) Jump  
 (4) Stand
- Directions -(84 to 86) :** In each of the following questions, select the alternatives that will come in place of question-mark (?) -
84. ACFJ : ZXUQ :: EGIN ?
- (1) VUSQ  
 (2) UTRP  
 (3) VRPM  
 (4) VTRM
85. In each of the following questions, select the alternatives that will come in place of question-mark (?) -
- BLOCKED : YOLXPVW :: ? : OZFMXS
- (1) DEBATE  
 (2) RESULT  
 (3) LABOR  
 (4) LAUNCH
86. In each of the following questions, select the alternatives that will come in place of question-mark (?) -
- PASS : QBTT :: FAIL : ?
- (1) GJBM  
 (2) GBJM  
 (3) MBJG  
 (4) MJBG
- Directions - Each of the following questions has a group. Which one of the given alternatives will be another member of the group or of that class.
87. Lucknow, Patna, Bhopal, Jaipur
- (1) Shimla  
 (2) Mysore  
 (3) Pure  
 (4) Indore

88. Directions - Each of the following questions has a group. Which one of the given alternatives will be another member of the group or of that class.

Wheat, Barley, Rice

- (1) Food  
(2) Agriculture  
(3) Farm  
(4) Gram

89. Directions - Each of the following questions has a group. Which one of the given alternatives will be another member of the group or of that class.

24 : 60 :: 120 : ?

- (1) 160  
(2) 220  
(3) 210  
(4) 108

90. In each of the following questions find the word which is different from the rest.

- (1) Tiger (2) Lion  
(3) Leopard (4) Cow

91. Find out the pair which is different from the others in each of the following questions.

Which of the following does not have the same relationship between them as is there between DH: EG -

- (1) QT : RS (2) LP : MO  
(3) BG : CF (4) VZ : XY

92. Find out the pair which is different from the others in each of the following questions.

- (1) 36-5  
(2) 28-4  
(3) 77-11  
(4) 91-13

93. Find out the pair which is different from the others in each of the following questions.

find out the group of letters which is different from the others.

- (1) UW  
(2) MP  
(3) KN  
(4) DG

Directions - In the series of each questions what will replace the question-mark (?).

94. 6, 11, 21, 36, 56, ?

- (1) 51  
(2) 42  
(3) 81  
(4) 91

95.  $\frac{2}{\sqrt{5}}, \frac{3}{5}, \frac{4}{5\sqrt{5}}, \frac{5}{25}, (?)$

- (1)  $\frac{6}{25\sqrt{5}}$  (2)  $\frac{7}{25}$   
(3)  $\frac{6}{125}$  (4)  $\frac{6}{5\sqrt{5}}$

Direction - In each of the questions one term is wrong find the wrong term.

96. 11, 2, 21, 3, 32, 4, 41, 5, 51, 6

- (1) 32  
(2) 51  
(3) 11  
(4) 21

97. 440, 420, 399, 378, 354

- (1) 420  
(2) 378  
(3) 354  
(4) 399

Directions - In each of the following questions one term is missing as shown by (?). Find the missing term.

98. J2Z, K4X, I7V, ?, H16R, M22P

- (1) L11S  
(2) L12T  
(3) L11T  
(4) L12S

Directions - Find the missing terms in each of the following questions.

99. aa\_b\_b\_ccdd\_

- (1) abbd  
(2) abcd  
(3) bada  
(4) adbc

Number	1	2	3	4	5	6	7	8	9
Symbol	×	*	?	÷	\$	•	+	!	Δ

(i) If the first digit of the number is odd then it will be coded as \* @.

(ii) If the last digit of the number is even then it will be coded as \* @.

100. How will the number 846721 be coded -

- (1) @ ÷ • + \* ×  
(2) ! ÷ • + \* @  
(3) ! ÷ • + \* ×  
(4) @ ÷ • + \* ×