

**All India Science Teachers' Association, West Bengal**  
**SCIENCE APTITUDE AND TALENT SEARCH TEST - 2025**

Time : 1 hr. 45 min.

Full Marks : 60


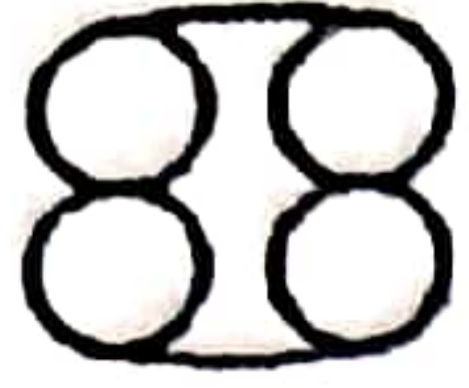
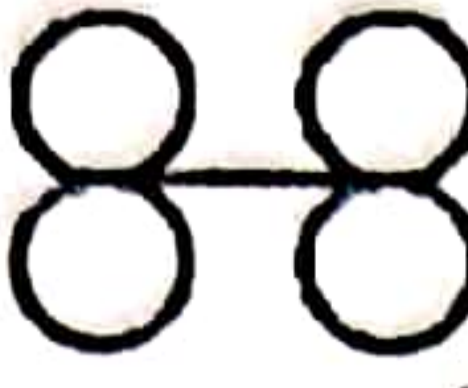

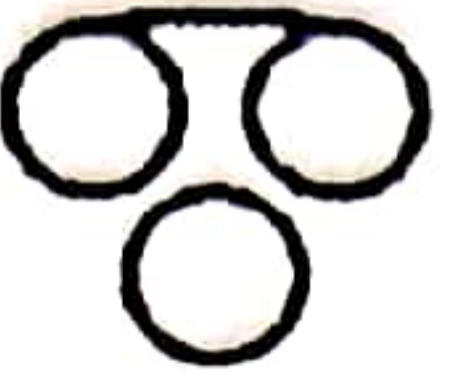


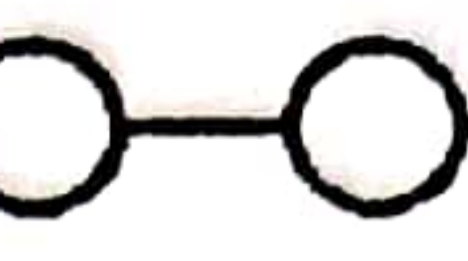
**Class - VI**

**INSTRUCTIONS :**



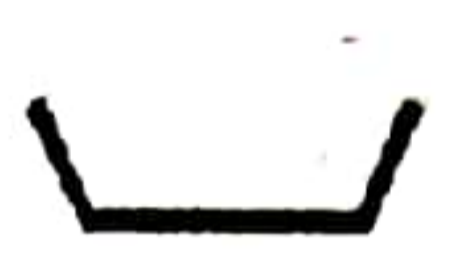
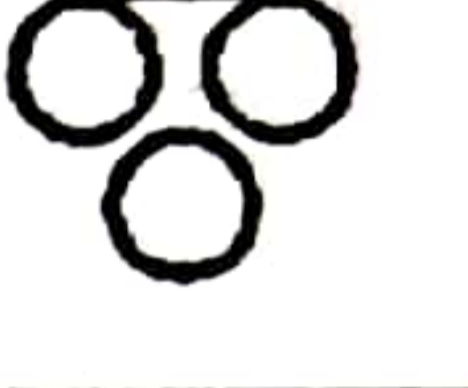

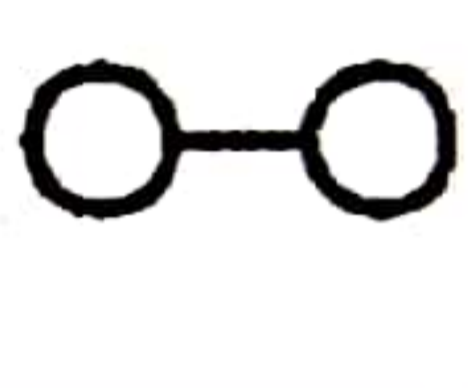
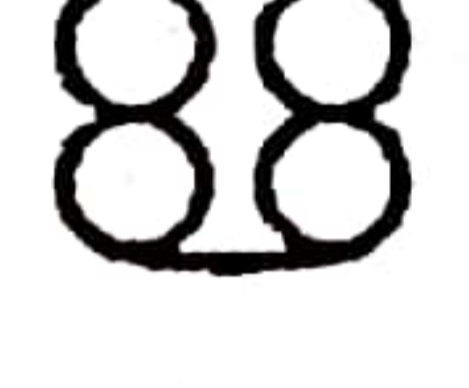



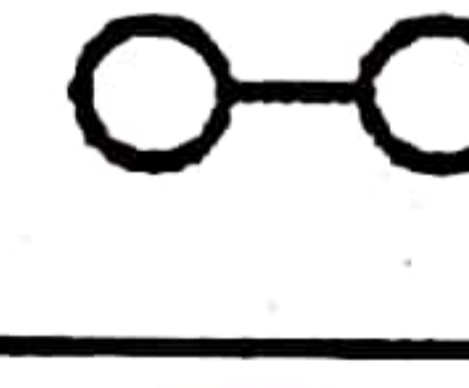
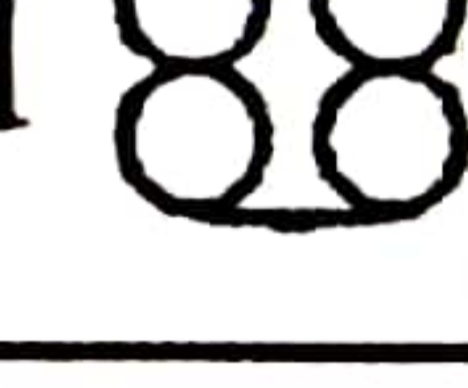
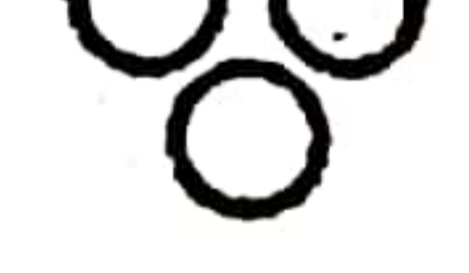

1) Write your name, class, name of school and roll number both at left and right side on the answer sheet. 2) In the question paper you will find four probable answers : a), b), c) and d) against each question. Find out which one of the answers is correct or the best. There are four circles on the answer sheet corresponding to each question below a), b), c) and d). Now mark the circle below the letter of selected answer by putting a cross mark distinctly with a ball pen. If c) is the correct answer, you are to mark ○○⊗○. 3) 1 mark will be awarded for each correct answer and 1 mark will be deducted for 3 wrong answers. 4) Don't write anything on the question paper. Don't mark answers on the question paper. Submit the answer sheet only after the examination. 5) You may use additional blank sheet for any rough work, if necessary. 6) Do not waste time for any question which appears difficult to you, better try next question. If you consider first answer to be wrong, blacken it like ● and put ⊗ on correct answer.

1. Besides Sun, the distance of Proxima Centauri from the Earth is minimum. Time taken by light to come from Proxima Centauri to the Earth is  
a) 8 min                      b) 1 hour                      c) 4 year                      d) 10 year
2. The event that occurs due to severe earthquake beneath the sea, is  
a) Yass                      b) Tsunami                      c) Aila                      d) Tornado
3. In the following, the pair in which both are comets is  
a) Shoemaker & Leonid                      b) Leonid & Levy  
c) Levy & Perseid                      d) Shoemaker & Levy
4. That one which hangs from the branch of a tree and can fly too, is  
a) bat                      b) parrot                      c) sparrow                      d) crow
5. The part that joins muscles with bones and transmits energy of muscles to the bones is  
a) vein                      b) tendon                      c) artery                      d) ligament

6-10. Symbols of some means of transport are given below.

Cycle	Bus	Lorry	Boat	Cycle Rickshaw	Auto Rickshaw	Motor Car	Motor Cycle
							

In the following two columns the above symbols are used for pairs of vehicles. Match the pair of vehicles with their respective symbols and select the right options for questions 6-10.

Column - I	Column - II
A. Bus and Lorry	i.  and 
B. Lorry and Motor Car	ii.  and 
C. Cycle and Boat	iii.  and 
D. Cycle and Auto Rickshaw	iv.  and 
E. Bus and Motor Cycle	v.  and 
F. Boat and Cycle Rickshaw	vi.  and 
G. Motor Car and Cycle Rickshaw	vii.  and 

6. a) A → iii    b) A → iv    c) B → i    d) F → iv

7. a) D → ii    b) E → iv    c) D → v    d) F → iv

8. a) A → i    b) B → ii    c) C → iii    d) E → iii

9. a) F → ii    b) G → iii    c) B → i    d) E → iv

10. a) F → iii    b) G → i    c) E → vii    d) G → v

11. All ingredients that prevent disease are made of mainly

- a) protein    b) carbohydrate    c) fat    d) starch

12. The cell fragments in blood that help stop bleeding and form clots are

- a) White blood corpuscle    b) red blood corpuscle  
c) platelet    d) plasma

13. The correct relation in the following is
- a) pressure  $\times$  thrust = area                      b) pressure  $\times$  area = thrust  
 c) thrust  $\times$  area = pressure                      d) pressure  $\times$  thrust = (area)<sup>2</sup>
14. The conversion of energy that occurs when quick lime is added to water is
- a) heat energy  $\rightarrow$  mechanical energy  
 b) mechanical energy  $\rightarrow$  heat energy  
 c) chemical energy  $\rightarrow$  mechanical energy  
 d) chemical energy  $\rightarrow$  heat energy
15. The force by which the Earth attracts a body, is known as its weight. The SI unit of weight is
- a) erg                      b) dyne                      c) joule                      d) newton
16. The instrument which measures the growth of a plant is
- a) galvanometer                      b) auxanometer  
 c) ammeter                      d) barometer
17. In view of materialistic behaviour the substance in the following different from the others is
- a) iron                      b) stainless steel                      c) chromium                      d) copper
18. One ore of copper in the following is
- a) copper glance                      b) hematite                      c) bauxite                      d) zincite
19. Yeast is a kind of
- a) fungus                      b) bacteria                      c) virus                      d) parasite
20. The odd one is the following is
- a) urea                      b) di-ammonium phosphate  
 c) carbaryl                      d) ammonium sulphate
- 21-25. Some quantities and their SI units are given

Quantity	SI unit
A) Temperature	i) kilogram
B) Electric current	ii) mole
C) Intensity of light	iii) kelvin
D) Quantity of atom & molecule	iv) ampere
E) Mass	v) candela

Comparing the quantities with the respective units indicate the correct match in questions 21-25.

21. a) A - i)                      b) B - ii)                      c) C - v)                      d) D - iv)
22. a) E - v)                      b) A - i)                      c) B - iv)                      d) C - iii)
23. a) D - iv)                      b) E - v)                      c) A - iii)                      d) B - ii)
24. a) C - iii)                      b) D - ii)                      c) E - v)                      d) A - i)
25. a) B - ii)                      b) C - iii)                      c) D - iv)                      d) E - i)
26. A chemical change in the following is  
a) burning of coal                      b) melting of ice  
c) evaporation of water                      d) magnetisation of iron
27. The part of human body lying between the chest and the belly in the following is  
a) inter costal muscle                      b) diaphragm                      c) heart                      d) lungs
28. The largest chamber of human heart is  
a) right ventricle                      b) right auricle  
c) left ventricle                      d) left auricle
29. The time interval between a secondary tide and the next primary tide is  
a) 12 hr                      b) 12 hr 26 min  
c) 12 hr 30 min                      d) 11 hr 54 min
30. The poisonous gas in the following is  
a) nitrogen                      b) hydrogen  
c) carbon monoxide                      d) carbon dioxide
31. All even numbers greater than 2 are  
a) composite numbers                      b) integers  
c) prime numbers                      d) recurring decimals
32. The common factors of 18 and 27 are  
a) 1, 3, 18                      b) 1, 3, 9                      c) 3, 9, 18                      d) 1, 3, 6
33. Among the following a three dimensional shape is represented by a  
a) square                      b) circle                      c) cube                      d) triangle

34. Shiuli made a model using 2 solid cubes and 1 solid cylinder. Total number of faces of the objects used in making the model is  
 a) 14                      b) 12                      c) 11                      d) 15
35. A solid body having 1 curved surface, 1 edge and 1 vertex is a  
 a) cylinder              b) cube                      c) cone                      d) circle
36. The place value of 7 in the number 5, 78, 21, 349 is  
 a) 70,00,000      b) 7,00,000              c) 7,00,00,000      d) 70,000
37. The greatest 9-digit number taking each of 2, 7, 0, 5, 6, 4, 3, 8, 1 once each is added to the smallest 8-digit number. The sum is  
 a) 87,65,43,210                      b) 88,75,44,210  
 c) 99,99,999                      d) 88,65,43,210
38. Riya ate  $(\frac{3}{8})$ th part of a cake and her brother ate  $(\frac{2}{8})$ th part of it. The fraction of the cake remained is  
 a)  $\frac{5}{8}$                       b)  $\frac{7}{8}$                       c)  $\frac{1}{8}$                       d)  $\frac{3}{8}$
39. If a ribbon of length x metre is cut into 4 equal parts, the length of each part in metre unit will be  
 a)  $(x - 4)$                       b)  $\frac{x}{4}$                       c)  $(100x - 4)$                       d)  $(\frac{x}{4}) \times 100$
40. The price of my pen is ₹y and price of Mihir's pen is ₹16 more than that of mine. Suman's pen is ₹4 less costly than that of Mihir. Price of Suman's pen is  
 a) ₹  $(y + 12)$       b) ₹  $(y + 18)$       c) ₹  $(y + 14)$       d) ₹  $(y - 4)$
41. The number of line segments that can be drawn through 4 non collinear points is  
 a) 6                      b) 5                      c) 7                      d) 8
42. The area of a square field is 625 sq.m. The cost of fencing around the field at the rate of ₹10 per metre will be  
 a) ₹ 6250                      b) ₹ 1350                      c) ₹ 62                      d) ₹1000

43. What fraction of the integers from 1 to 10 are prime numbers ?  
 a)  $\frac{5}{10}$                       b)  $\frac{4}{10}$                       c)  $\frac{2}{10}$                       d)  $\frac{3}{10}$
44. A line segment AB is 12 cm long. P is a point on the line AB such that  $AP : BP = 1 : 2$ . Then AP in cm unit is equal to  
 a) 6                      b) 3                      c) 4                      d) 8
45. To draw a  $47^\circ$  angle you should use  
 a) a protractor & a scale                      b) a compass & a scale  
 c) a compass & a divider                      d) a protractor & a divider
46. The distance of my school from my home is 3 km 400 m. Time to go to school by cycle at a speed of 10.2 km/hr is  
 a) 30 min      b) 20 min      c) 40 min      d) 50 min
47. Number of surfaces of a solid body formed by joining two identical cubes face to face with gum is  
 a) 5                      b) 7                      c) 12                      d) 6
48. Numbers which are multiples of 9 and lying between 40 and 60 are  
 a) 48, 54                      b) 45, 54                      c) 45, 57                      d) 42, 54
49. The greatest number among 2.3, 2, 2.33 and 2.09 is  
 a) 2.3                      b) 2                      c) 2.33                      d) 2.09
50. The smallest prime number in the following is  
 a) 1                      b) 4                      c) 3                      d) 2
51. The number to be added to 3 times of  $(\frac{6}{7})$  to get  $2\frac{6}{7}$  is  
 a)  $\frac{3}{7}$                       b)  $\frac{5}{7}$                       c)  $\frac{2}{7}$                       d)  $\frac{1}{7}$
52. P) 3.5, 70, 2, 40,                      Q) 45, 27, 15, 25  
 R) 11, 22, 36, 72                      S) 12 km, 8 km, 1 hr, 40 min
- The set of elements among the above 4 sets not in proportion is  
 a) P & Q                      b) Q only                      c) R & S                      d) S only

53. The smallest natural number to be multiplied to 432 to make the product a perfect square number is

- a) 7                      b) 6                      c) 3                      d) 8

54. If the difference between 5 and x is positive, then

- a)  $x = 5$               b)  $x < 5$  or  $x > 5$ .              c)  $x > 5$                       d)  $x < 5$

55. In a right angled triangle ABC with  $\angle B = 90^\circ$ , perpendiculars are drawn from the vertices to their opposite sides. They will meet at

- a) point B                      b) point A  
c) nowhere                      d) point D outside the triangle

56. Two straight lines AB and BC meet at an angle  $125^\circ$ . The related reflex angle will be

- a)  $305^\circ$                       b)  $255^\circ$                       c)  $225^\circ$                       d)  $235^\circ$

57. The product of 1st and 2nd of 3 positive numbers is 24, that of 2nd and 3rd of those is 48 and that of 1st and 3rd of those is 32. The numbers are respectively

- a) 6, 3, 10                      b) 4, 8, 12                      c) 4, 6, 8                      d) 4, 7, 8

58. From a pencil box 20% of the pencils are taken out and we get 17 pencils. Initially the number of pencils in the box was

- a) 85                      b) 68                      c) 102                      d) 119

59. Amal, Hasina and Rohit had red, green and yellow ribbons of length 22m, 24m 75cm and 16m 50cm respectively to decorate stage in school function. Without wastage, the largest length of ribbon that can be cut from each colour is

- a) 2m 75cm                      b) 3m 25cm                      c) 3m 45cm                      d) 3m 75cm

60. a, b, c and d are 4 positive numbers. If the product of a and b is equal to that of c and d, the correct relation in the following is

a)  $\frac{a}{b} = \frac{c}{d}$                       b)  $\frac{a}{c} = \frac{d}{b}$

c)  $\frac{(a+b)}{2} = \frac{(c+d)}{2}$                       d)  $\frac{a}{b} = \frac{d}{c}$

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