



# Aakash

Medical | IIT-JEE | Foundations

(Divisions of Aakash Educational Services Pvt. Ltd.)

Regd. Office : Aakash Tower, Plot No.-4, Sec-11, MLU, Dwarka, New Delhi-110075

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## Admission-cum-Scholarship Test (Sample Paper)

(Integrated Classroom Course for Olympiads & Class IX - 2017)

(Syllabus of the Test : Science & Mathematics of Class VIII)

Time : 2 Hrs.

Test Booklet Code : **A**

Max.Marks : 360

### INSTRUCTIONS TO THE CANDIDATES

1. The initial 10 minutes are earmarked for the candidates to carefully read the instructions. (Note : The candidates are not allowed to either look inside the question booklet or start answering during these initial 10 minutes.)
2. The question booklet and answer sheet are issued separately at the start of the examination.
3. This question booklet contains 90 questions.
4. Read each question carefully.
5. Determine the correct answer, one out of the four available choices given under each question.
6. It is mandatory to use Blue/Black Ball Point Pen to darken the appropriate circle in the answer sheet.
7. For each correct answer, **four** marks will be awarded. There is **no negative** marking.

#### For Example

Q. 12 : In the Question Booklet is : Which one is known as 'black gold'?

(Answer Sheet)

- |               |         |                                  |   |   |
|---------------|---------|----------------------------------|---|---|
| (1) Old gold  | Q.12. ① | <input checked="" type="radio"/> | ③ | ④ |
| (2) Petroleum |         |                                  |   |   |
| (3) Silver    |         |                                  |   |   |
| (4) Coal      |         |                                  |   |   |

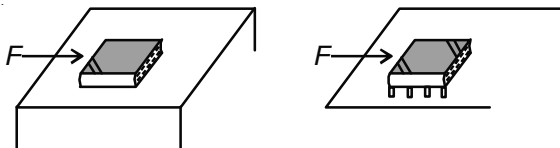
Thus as the correct answer is choice 2, the candidate should darken completely (with a blue/black Ball point pen only) the circle corresponding to choice 2 against Question No. 12 on the Answer Sheet. If more than one circle is darkened for a given question such answer will be rejected.

8. Do not use white-fluid or any other rubbing material on answer sheet. No change in the answer once marked is allowed. Before handing over the answer sheet to the invigilator, candidate should check that **Roll No.** and **Test-Booklet code** have been filled and marked correctly.
9. Rough work should be done only on the space provided in the question booklet.
10. Immediately after the prescribed examination time is over, the **Answer sheet and Question booklet are to be returned to the invigilator.** If the candidate wants to leave the examination hall before time, he/she should hand over the question paper and answer sheet to the invigilator. However, no student can leave the examination hall before half time.

SCIENCE

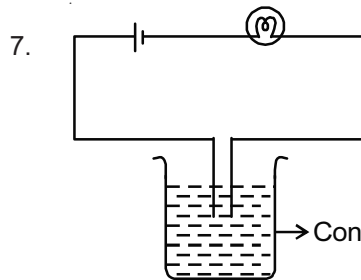
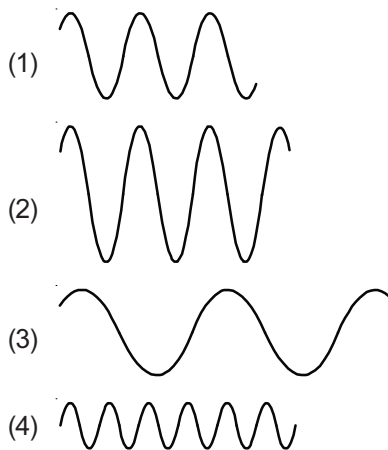
Choose the correct answer :

1. A compass needle kept on a table aligns in the north-south direction. Which of the following forces is responsible for this?
  - (1) Electrostatic force
  - (2) Magnetic force
  - (3) Frictional force
  - (4) Weak nuclear force
2. An object is vibrating at 'p' Hz. What is its time period?
  - (1)  $p^2 s$
  - (2)  $\frac{1}{p^2} s$
  - (3)  $\frac{1}{p} s$
  - (4)  $2ps$
3. The planet Venus is also called
  - (1) Evening star
  - (2) Morning star
  - (3) Great bear
  - (4) Rising sun
4. Raju slides a book on a table as shown in figure. Now, if he again slides the book over a few pencils as shown, he tends to



- (1) Increase friction
  - (2) Decrease friction
  - (3) Reduce the weight of the book
  - (4) Increase the surface irregularities
5. Match the following instruments with their respective 'vibrating sound producing parts'.
- |                |                         |
|----------------|-------------------------|
| a. Guitar      | (i) Air column          |
| b. Dholak      | (ii) Stretched membrane |
| c. Mouth organ | (iii) Stretched string  |
- (1) a(ii), b(iii), c(i)
  - (2) a(iii), b(ii), c(i)
  - (3) a(iii), b(i), c(ii)
  - (4) a(i), b(ii), c(iii)

6. Identify the sound wave with least shrillness.



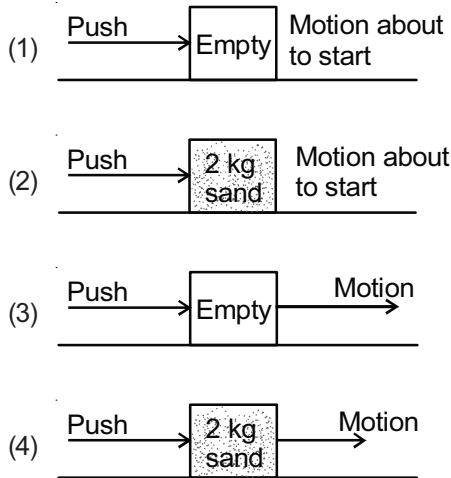
In the above diagram, if the bulb does not glow, then liquid in the container can be

- (1) Vegetable oil
  - (2) Tap water
  - (3) Lemon juice
  - (4) Copper sulphate solution
8. The increase in magnitude of 2 on Richter scale means
- (1) The earthquake is now 1000 times more destructive
  - (2) The earthquake is now 10 times more destructive
  - (3) The earthquake is now 1000 times less destructive
  - (4) The earthquake is now 10 times less destructive

**Space For Rough Work**

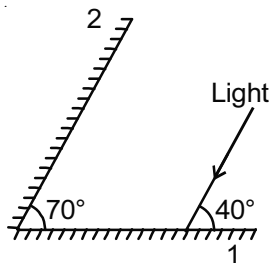
9. \_\_\_\_\_ is the brightest planet in the night sky.
- (1) Venus
  - (2) Mars
  - (3) Jupiter
  - (4) Saturn

10. In which of the following cases will the ground exert maximum friction on the wooden box?



11. A pendulum A completes 25 oscillations in 30 seconds, and pendulum B completes 30 oscillations in 25 seconds. The ratio of the time periods of A and B is
- (1) 25 : 36
  - (2) 36 : 25
  - (3) 1 : 1
  - (4) 5 : 6

12. Two plane mirrors are inclined at an angle of  $70^\circ$ . For a ray of light, incident on mirror 1 as shown, its angle of reflection from mirror 2 is

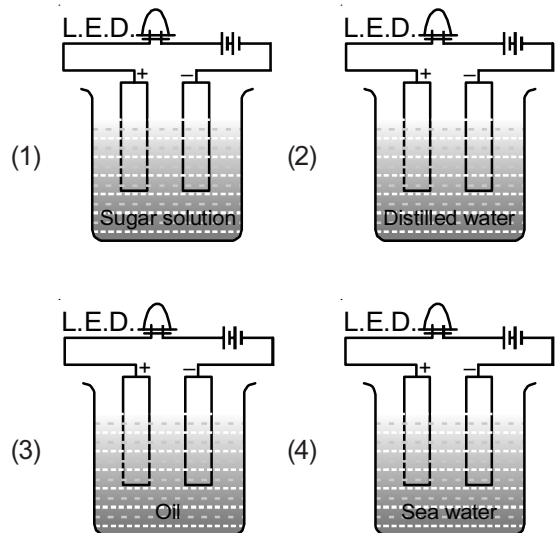


- (1) Greater than its angle of reflection at mirror 1
- (2) Lesser than its angle of reflection at mirror 1
- (3) Equal to  $70^\circ$
- (4) Greater than  $40^\circ$

13. A wooden box is given horizontal push of same strength on levelled surfaces of different nature. It travels shortest before coming to rest on

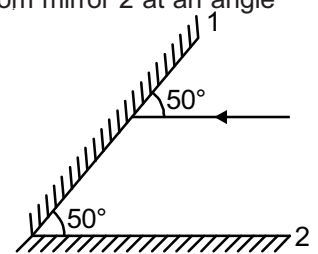
- (1) Marble floor
- (2) Glass floor
- (3) Polished wooden floor
- (4) Cotton bed

14. In which of the following cases will the L.E.D. glow?



15. Two plane mirrors are inclined with each other at an angle of  $50^\circ$ . A light ray incident upon mirror 1, as shown is reflected from mirror 2 at an angle

- (1)  $10^\circ$
- (2)  $20^\circ$
- (3)  $80^\circ$
- (4)  $40^\circ$



Space For Rough Work

16. Read the following statements carefully.
- Rayon is used for making parachutes and ropes for rock climbing
  - Bakelite is a thermoplastic
  - Naphthalene balls are obtained from coal tar
- Which of the above statement(s) is/are incorrect?
- Only (iii)
  - Both (i) & (ii)
  - Both (i) & (iii)
  - Both (ii) & (iii)
17. An element 'X' reacts with oxygen to form its oxide which dissolved in water to produce 'Y'. Y turns blue litmus paper red. X & Y respectively are
- Ca & Ca(OH)<sub>2</sub>
  - S & H<sub>2</sub>SO<sub>3</sub>
  - Fe & H<sub>2</sub>SO<sub>4</sub>
  - Cu & Cu(OH)<sub>2</sub>
18. When a copper vessel is exposed to moist air for long, it acquires a coating, the colour of coating and the substance present in coating respectively are
- Black & Cu(OH)<sub>2</sub> + CuCO<sub>3</sub>
  - Green & Cu(OH)<sub>2</sub> + CuCO<sub>3</sub>
  - Black, Cu<sub>2</sub>O + CuCO<sub>3</sub>
  - Green Cu<sub>2</sub>O + CuCO<sub>3</sub>
19. Which of the following statements is incorrect?
- All metals are hard solids with no exception
  - All non-metals are bad conductor of electricity except graphite
  - Metals are generally good conductor of heat
  - Carbon is a non-metal
20. The colour of the hottest zone of a candle flame is
- Yellow
  - Black
  - Blue
  - Green
21. When a metal reacts with an acid, generally a gas 'X' is evolved which burns with a pop sound. Gas 'X' is
- Oxygen
  - Carbon dioxide
  - Hydrogen
  - Carbon monoxide
22. A plastic 'X' is used as the coating of the uniforms of firemen. Plastic 'X' and its type respectively are
- Melamine and thermosetting
  - Bakelite and thermosetting
  - Melamine and thermoplastic
  - Bakelite and thermoplastic
23. Consider the given chemical reactions :
- Copper sulphate + iron filings  

$$\longrightarrow \text{iron sulphate} + \text{copper}$$
  - Iron sulphate + zinc  $\longrightarrow$  zinc sulphate + iron
- The correct order of the reactivity of the given metals is
- Iron < Zinc < Copper
  - Copper < Zinc < Iron
  - Iron < Copper < Zinc
  - Copper < Iron < Zinc
24. A black coloured substance 'X' is obtained from petroleum refining and is used in road surfacing. Substance 'X' is
- Bitumen
  - Coal-tar
  - Paraffin
  - Coke
25. Which of the following substances cannot be used as a fire extinguisher?
- Carbon dioxide
  - Hydrogen
  - Water
  - Sand
26. When the head of safety match is struck against the rubbing surface, one of the form of phosphorus gets converted to the other form of phosphorus. Identify the two forms of phosphorus involved in the conversion
- Red phosphorus to white phosphorus
  - White phosphorus to red phosphorus
  - Red phosphorus to yellow phosphorus
  - Yellow phosphorus to red phosphorus

**Space For Rough Work**

27. CNG stands for
- (1) Complete Natural Gas
  - (2) Compressed Natural Gas
  - (3) Coal Natural Gas
  - (4) Carbonised Natural Gas
28. Identify the non metal that is used in the fertilizers to enhance the growth of plants.
- (1) Sodium                      (2) Potassium
  - (3) Nitrogen                      (4) Magnesium
29. It is not advisable to wear synthetic clothes while cooking because
- (1) They are too expensive
  - (2) They catch fire easily
  - (3) They are heat resistant
  - (4) They are non biodegradable
30. The property of the metals by which they can be beaten into thin sheets is called
- (1) Sonority                      (2) Ductility
  - (3) Malleability                      (4) Conductivity
31. \_\_\_\_\_promotes the formation of curd.
- (1) *Bacillus anthracis*
  - (2) *Lactobacillus*
  - (3) *Rhizobium*
  - (4) Yeast
32. The species of plants and animals which are found exclusively in a particular area are called
- (1) Threatened species (2) Endangered species
  - (3) Endemic species (4) Extinct species
33. 'X' and 'Y' are the hormones secreted in both males and females. 'X' requires iodine for its synthesis and absence of 'Y' results in diabetes. 'X' and 'Y' respectively, are
- (1) Growth hormone and thyroxine
  - (2) Adrenaline and insulin
  - (3) Thyroxine and adrenaline
  - (4) Thyroxine and insulin
34. Which of the following stages is not present in the life cycle of a frog?
- (1) Egg                              (2) Pupa
  - (3) Larva                              (4) Adult
35. All of the following are examples of fertilisers, **except**
- (1) Urea                              (2) Potash
  - (3) Super phosphate (4) Compost
36. Which of the following diseases can spread from a diseased person to a healthy person?
- (1) Goitre                              (2) Tuberculosis
  - (3) Diabetes                              (4) Asthma
37. In how many animal(s) given in the box, the young ones look(s) very different from the adults?
- |  |
|--|
| Cow, Hen, Butterfly, Silkworm, Dog,<br>Human, Frog, Mosquito |
|--|
- (1) One                              (2) Three
  - (3) Four                              (4) Seven
38. The campaign "Say no to crackers" organised by the school children made a big difference to the level of
- (1) Air pollution                      (2) Water pollution
  - (3) Ground water                      (4) Sea water
39. Which of the following statement(s) is/are **incorrect**?
- (i) Arjun and chinkara are flora and fauna, respectively of a biosphere reserve
  - (ii) A group of population which are unable to interbreed is called species
  - (iii) Desertification is the conversion of desert into fertile land
  - (iv) Clearing of forests for other purposes is called deforestation
- (1) (ii) only                              (2) (iii) only
  - (3) (ii) & (iii)                              (4) (i) & (iv)
40. Pinky uprooted a crop plant and noticed that there are nodules in its roots. Which of the following plants it may be?
- (1) Pea                              (2) Wheat
  - (3) Mustard                              (4) Paddy

Space For Rough Work

41. Match the following columns and select the correct option.

**Column I**

- a. White blood cell  
b. Red blood cell  
c. Nerve cell  
d. Muscle cell

**Column II**

- (i) Long and branched  
(ii) Spherical shaped  
(iii) Spindle shaped  
(iv) Irregular shaped

- (1) a(iii), b(ii), c(i), d(iv)  
(2) a(iv), b(ii), c(i), d(iii)  
(3) a(iv), b(ii), c(iii), d(i)  
(4) a(iii), b(i), c(ii), d(iv)
42. In India, all of the following crops are generally harvested in the month of March, **except**
- (1) Wheat (2) Maize  
(3) Mustard (4) Gram

43. Select the **incorrect** statement.

- (1) By reusing papers we save trees, energy and water  
(2) Deforestation is a solution of reforestation  
(3) Reforestation is a solution of deforestation  
(4) Reforestation can occur naturally

44. *Amoeba* moves and feeds with the help of

- (1) Cilia (2) Flagella  
(3) Pseudopodia (4) Limbs

45. Release of ovum from the ovary is called

- (1) Ovulation  
(2) Fertilisation  
(3) Reproduction  
(4) Transformation

**MATHEMATICS**

46. If a number is divisible by 9 and 15, then it is always divisible by

- (1) 30 (2) 45  
(3) 135 (4) 27

47. Expanded form of  $(5x - 7y)^2$  is

- (1)  $25x^2 - 49y^2$   
(2)  $25x^2 - 49y^2 + 70xy$   
(3)  $25x^2 + 49y^2 + 70xy$   
(4)  $25x^2 + 49y^2 - 70xy$

48. The value of  $\left(\frac{1}{27}\right)^{\frac{2}{3}}$  is

- (1)  $\frac{1}{3}$  (2)  $\frac{1}{9}$   
(3) 3 (4) 9

49. Area of a trapezium is  $220 \text{ cm}^2$  and its height is 4 cm. If one of the parallel sides is 97 cm, then other parallel side is

- (1) 47 cm (2) 13 cm  
(3) 20 cm (4) 23 cm

50. If  $(x - 7)(x - p) = x^2 - 12x + 35$ , then the value of  $p$  is equal to

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

51. Working hours of 10 days of an employee are as follows

10, 5, 7, 4, 8, 6, 7, 6, 4, 3

The average working hours of the employee are

- (1) 4.9 (2) 5.9  
(3) 6.1 (4) 6

52. If  $x = 0.235$ , then the value of  $12x + 1$  is

- (1) 3.8 (2) 3.82  
(3) 3.7 (4) 3.72

53. If each interior angle of a regular polygon is  $120^\circ$ , then the polygon is

- (1) Triangle (2) Pentagon  
(3) Hexagon (4) Nonagon

**Space For Rough Work**

54. The curved surface area of a cylinder whose diameter is 42 cm and height is 5 cm, is  
 (1) 330 cm<sup>2</sup> (2) 660 cm<sup>2</sup>  
 (3) 1320 cm<sup>2</sup> (4) 2640 cm<sup>2</sup>
55. A unique quadrilateral cannot be constructed if  
 (1) 3 angles and their 2 included sides are given  
 (2) 3 sides and both diagonals are given  
 (3) 2 sides and 2 angles are given  
 (4) All the 4 sides and one diagonal are given
56. If  $\frac{(9x+7)-(7x-4)}{5x+12} = \frac{-7}{2}$ , then the value of  $-39x$  is  
 (1) -100 (2) -106  
 (3) 106 (4) 100
57. Which of the following are in ascending order?  
 (1)  $\frac{4}{5}, \frac{3}{7}, \frac{2}{5}, \frac{1}{3}$  (2)  $\frac{1}{3}, \frac{2}{5}, \frac{3}{7}, \frac{4}{5}$   
 (3)  $\frac{1}{3}, \frac{2}{5}, \frac{4}{5}, \frac{3}{7}$  (4)  $\frac{1}{3}, \frac{4}{5}, \frac{3}{7}, \frac{2}{5}$
58. A sum of money is to be distributed among A, B, C and D in proportion 9 : 7 : 13 : 5. If C gets ₹ 2400 more than D, then the sum of shares of B and C is  
 (1) ₹ 3000 (2) ₹ 4000  
 (3) ₹ 5000 (4) ₹ 6000
59. The compound interest on ₹ 24000 for  $1\frac{1}{2}$  years at 20% per annum when compounded half yearly is  
 (1) ₹ 3840 (2) ₹ 10560  
 (3) ₹ 7944 (4) ₹ 1560
60. 
$$\begin{array}{r} 1 \ 2 \ P \\ + 6 \ P \ Q \\ \hline P \ 0 \ 9 \end{array}$$
  
 The value of  $P^2 + Q^2$  is  
 (1) 169 (2) 53  
 (3) 41 (4) 65
61. A shopkeeper purchased 2 articles for ₹ 5000 each. He sold first article at a profit of 20% and second article at a profit of x%. If combined selling price of both the articles is ₹ 13000, then the value of x is  
 (1) 20 (2) 30  
 (3) 40 (4) 25
62. The probability of getting a multiple of 7 when a die is rolled is  
 (1)  $\frac{1}{3}$  (2)  $\frac{1}{7}$   
 (3) 0 (4) 1
63. The one's digit of the cube of 34 equals  
 (1) 2 (2) 8  
 (3) 6 (4) 4
64. The number of edges of a tetrahedron is  
 (1) 4 (2) 6  
 (3) 8 (4) 12
65. The marked price of an article is ₹ 60 and it is sold for ₹ 54. The discount rate is  
 (1) 95% (2) 11.1%  
 (3) 19% (4) 10%
66. The volume of a cube is 64 cm<sup>3</sup>. Its lateral surface area is  
 (1) 56 cm<sup>2</sup> (2) 84 cm<sup>2</sup>  
 (3) 64 cm<sup>2</sup> (4) 32 cm<sup>2</sup>

Space For Rough Work

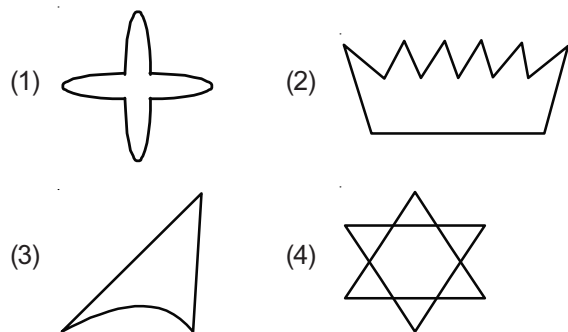
67. The coordinates of the point of intersection of the x-axis and the y-axis are

- (1) (0, -1)                      (2) (0, 0)
- (3) (1, 1)                        (4) (1, 0)

68. Multiplicative inverse of a positive rational number is

- (1) A negative rational number
- (2) A positive rational number
- (3) 0
- (4) 1

69. The closed curve which is also a polygon is



70. One of the factors of  $\frac{x^2}{8} - \frac{y^2}{9}$  is

- (1)  $\frac{x}{2} + \frac{y}{3}$                       (2)  $\frac{x}{2} - \frac{y}{3}$
- (3)  $\frac{x}{4} + \frac{y}{3}$                       (4)  $\frac{x}{2\sqrt{2}} - \frac{y}{3}$

71. The sum of first 32 odd natural numbers is

- (1) 1156                              (2) 961
- (3) 1024                              (4) 1089

72. If  $6^p + 6^{p-1} = 252$ , then the value of  $p$  is

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

73. Manju starts for her school at 8:16 a.m. on her bicycle. If she travels at a speed of 12 km/h, then she reaches her school late by 7 minutes but on travelling at 18 km/h, she reaches the school 10 minutes early. At what time does the school start?

- (1) 8:30 a.m.                      (2) 8:56 a.m.
- (3) 9:00 a.m.                      (4) 8:45 a.m.

74. Three rational numbers lying between  $-\frac{8}{9}$  and  $\frac{3}{4}$  are

- (1)  $\frac{42}{145}, \frac{12}{17}, \frac{-19}{12}$                       (2)  $\frac{-5}{72}, \frac{-49}{144}, \frac{-13}{96}$
- (3)  $\frac{16}{23}, \frac{-18}{47}, \frac{19}{21}$                       (4)  $\frac{13}{43}, \frac{42}{26}, \frac{-17}{18}$

75. The length of the largest pole that can be placed in a room of dimensions 12 m × 9 m × 8 m is

- (1) 36 m                                (2) 144 m
- (3) 17 m                                (4) 28 m

76. If  $x - \frac{1}{x} = 8$  ( $x \neq 0$ ), then the value of  $x^4 + \frac{1}{x^4}$  is

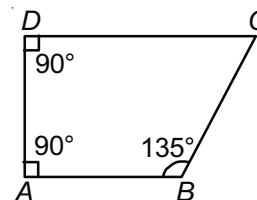
- (1) 1056                                (2) 98
- (3) 983                                 (4) 4354

77. If  $x = \frac{1}{2}$  and  $y = \frac{2}{3}$ , then  $xy + \frac{y}{x}$  equals

- (1)  $\frac{5}{3}$                                     (2)  $\frac{2}{3}$
- (3)  $\frac{7}{3}$                                     (4)  $\frac{4}{5}$

78. In the given figure,  $\angle DCB$  equals

- (1) 15°
- (2) 45°
- (3) 30°
- (4) 60°



Space For Rough Work



79. The total number of outcomes when two coins are tossed together is
- (1) 2 (2) 3  
(3) 4 (4) 1
80. If  $\frac{1}{a}$  and  $\frac{1}{b}$  are in inverse proportion, then  $a$  and  $b$  are
- (1) In direct proportion  
(2) In inverse proportion  
(3) Neither in direct nor in inverse proportion  
(4) Sometimes in direct and sometimes in inverse proportion
81. The present age of father is 5 times the present age of his son. If the age of son after five years will be 10 years, then the present age of the father is
- (1) 40 years (2) 30 years  
(3) 25 years (4) 35 years
82. The number of diagonals in a polygon of  $(n + 1)$  sides is
- (1)  $\frac{n(n-3)}{2}$  (2)  $\frac{(n+1)(n-2)}{2}$   
(3)  $\frac{n(n-2)}{2}$  (4)  $\frac{n(n+1)}{2}$
83. Sahil types 300 words in 15 minutes. The number of words he would type in one hour is
- (1) 900 (2) 1000  
(3) 1200 (4) 600
84. 12340000 can be written in standard form as
- (1)  $0.1234 \times 10^8$  (2)  $1.234 \times 10^{-7}$   
(3)  $1.234 \times 10^7$  (4)  $0.1234 \times 10^{-8}$
85. If  $6A + B2 = 97$ , where  $A$  and  $B$  are digits, then the values of  $A$  and  $B$  respectively are
- (1) 5 and 3 (2) 3 and 5  
(3) 2 and 3 (4) 5 and 4
86. Height of a tower is 200 m and this tower is represented by 2 cm on a map. The scale used for the map is
- (1) 100 : 1 (2) 1 : 1000  
(3) 1 : 100 (4) 1 : 10000
87. Which of the following statements is incorrect?
- (1) 729 is a perfect cube  
(2) Cube of 84 ends with 4  
(3) Cube of any odd number is odd  
(4) Cube of a two digit number may be a three digit number
88. Which of the following is not a perfect square?
- (1) 1225 (2) 5929  
(3) 5103 (4) 8281
89. Ishika bought a car for ₹ 450000. Next year its price decreased by 12% and further next year it decreased by 15%. In the two years overall decrease percent in the price of the car is
- (1) 27% (2) 23.4%  
(3) 25.2% (4) 20%
90. A streamer goes downstream from one point to another in 9 hours. It covers the same distance upstream in 11 hours. If the speed of stream be 3 km/hr, then the distance between the points is
- (1) 288 km (2) 297 km  
(3) 270 km (4) 279 km



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## Admission-cum-Scholarship Test (Sample Paper)

(Integrated Classroom Course for Olympiads & Class IX - 2017)

### Answers

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