



Indian School Talent Search Exam (ISTSE)

Sample Paper (Paper Based Exam) – Class 7

Total Questions: 50, Total Marks: 100

Instructions:

1. Duration of the test is 60 minutes.
2. Total marks are 100.
3. Questions paper contains 50 Questions.
4. The question numbers
 - 1 to 9 belong to “Mental and Logical Ability”
 - 10 to 21 belong to Mathematics
 - 22 to 33 belong to Science
 - 34 to 45 belong to English and
 - 46 to 50 are “Scholars Section”
5. Each question carries negative marking.
6. Please leave the question in case you are not sure about answer.
7. Un-attempted questions do not attract negative marking.
8. Answers are to be given on a separate OMR sheet.
9. Rough work can be done anywhere in the booklet but not on the OMR sheet/loose paper.

Section-1, Mental and Logical Ability

(1 mark for correct answer. 0.25 mark will be deducted for wrong answer)

1. A person is facing North-West. He turns 45° in the clockwise direction and then 135° in the anticlockwise direction. Which direction is he facing now?
 - a) North West
 - b) North East
 - c) South West
 - d) South East
2. Find the missing term in given series -
1,1,2,6,24, ?, 720
 - a) 104
 - b) 108
 - c) 100
 - d) 120
3. Choose the option which can be concluded from the statements given below:
 - I) Every kid is cute
 - II) Some kids are naughty
 - a) Some kids are naughty but not cute.
 - b) All kids are cute and naughty.
 - c) All kids who are not cute are not naughty.
 - d) Some kids are cute but not naughty.
4. How many 4's are there preceded by 7 but not followed by 3?

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 - a) Three
 - b) Five
 - c) Four
 - d) Six



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5. There are 4 men, A, B, C, D. A and B like the colour blue; B and C like the colour red C also likes pink. D dislikes blue, but likes pink and red. Which colour is liked by most men?

- a) Blue
- b) Pink
- c) Red
- d) All colours are equally liked

6. Rita starts running towards North. After running 5 km, she turns to her left and runs 10 km. She then turns to her left and runs 20 km. Finally, she turns to left and runs 10 km. How far is she now from the starting point and in which direction?

- a) 15 km, South
- b) 20 km, North
- c) 25 km, North
- d) 22 km, South

7. A, B, C and D are playing cards A and B are partners. D faces towards North. If A faces towards West, then who faces towards South?

a) D	b) B
c) A	d) C

8. Ajay left home for the bus stop 15 min earlier than usual. It takes 10 minutes to reach the stop. He reached the stop at 8:40a.m. What time does he usually leave home for the bus stop?

a) 8:25am	b) 8:30am
c) 8:55am	d) 8:45am

9. Look at this series:
64,58, 52, 46, 40, 34, ...

What number should come next?

a) 30	b) 26
c) 28	d) 32

Section-2, Mathematics

(2 marks for correct answer. 0.50 mark will be deducted for wrong answer)

10. The median of the data:
3, 4, 5, 6, 7, 3, 4 is

a) 4	b) 3
c) 6	d) 5

11. An iron box is sold at a gain of 16%. If it were sold for Rs 20 more, there would have been a gain of 20%. Find the cost price of iron box.

- a) Rs.480
- b) Rs.420
- c) Rs.500
- d) Rs.580

12. In a two-digit number, the digit at the unit's place is four times the digit at the ten's place and the sum of the digits is equal to 10.

What is the number?

- a) 82
- b) 28
- c) 14
- d) 41



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13. What is the total number of candidates who appeared in an examination, if 20% are failed and the number of passed candidates are 240 more than the number of failed candidates?

a) 300	b) 600
c) 500	d) 400

14. 15 women can do half of work in 20 days. In how many days will 20 women do the full work?

- a) 35 days
- b) 25 days
- c) 40 days
- d) 30 days

15. The total cost of 3 bedsheets and 2 pillows is Rs 745. If one bedsheet costs Rs 165, then find the price of a pillow.

- a) Rs 80
- b) Rs 160
- c) Rs 125
- d) Rs 120

16. $42 * (4 + 2) = (42 * 4) + (42 * 2)$ is an example of _____.

- a) closure property
- b) associative property
- c) commutative property
- d) distributive property

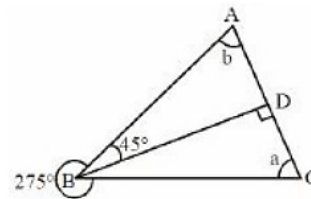
17. For which equation $x = -3$ is a solution.

- a) $\frac{x}{3} + 3 = 2$
- b) $3x = 9$
- c) $3x - 5 = 10$
- d) $7 = -10 + x$

18. The ratio of ages of Mary and Mariya is 4:5. After 12 years their ratio becomes 5:6. What will be the age of Marry after 2 years?

- a) 60
- b) 70
- c) 50
- d) 49

19. By how much is $\angle a$ is bigger than $\angle b$?



- a) 50 degree
- b) 10 degree
- c) 45 degree
- d) 5 degree

20. If R is a prime number such that $(R+2)$ is also a prime number, then $R(R+2) + 1$ is always _____.

- a) A prime number
- b) Not a perfect square
- c) An odd integer
- d) A perfect square

21. Simplify:

$$27 - [18 - \{16 - (5 - 4 - 1)\}]$$

- a) 23
- b) 11
- c) 15
- d) 25



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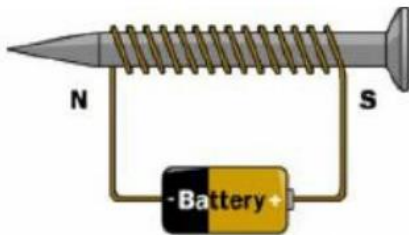
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Section-3, Science

(2 marks for correct answer. 0.50 mark will be deducted for wrong answer)

22. What is the function of valves present in the veins?
- They ensure the flow of blood in both directions upward and downward.
 - They prevent backflow of blood in veins and allow the blood to flow only in one direction towards the heart.
 - They save the veins from collapsing under the pressure of blood flow.
 - They ensure backflow of blood in veins.
23. Look at the picture of an electromagnet



The strength of this electromagnet can be increased by

- increasing the number of coils in the wire
- decreasing the amount of current
- decreasing the number of coils in the wire
- adding a light bulb and switch

24. How does the cellulose in herbivore's food get digested?
- Viruses in their gut convert the cellulose into simple sugars
 - Fungi in their gut convert the cellulose into simple sugars
 - Bacteria in their gut convert the cellulose into glucose
 - Algae in their gut convert the cellulose into simple sugars
25. Read the following statements and mark the appropriate choice.
- Copper sulphate is a salt.
 - All acids contain hydrogen.
 - Bases are usually hydroxides of metals.
 - The formula for sulphuric acid is H_2SO_4 .
 - Bases do not react with carbonates and turn red litmus paper blue.
- All statements are true.
 - All statements are false.
 - Only statement I, V are true, II, III and IV are false.
 - none
26. Which of the following statements mentioned below is True?
- The tides are highest during the full moon and new moon days.
 - High tides occur when ocean water gets drawn in diagonally opposite direction.
 - Low tides are called spring tides.
 - None



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27. Which of these is not a mammal?
- Bat
 - Asiatic elephant
 - Tortoise
 - Blue whale
28. What is the advantage of crystallization over evaporation?
- Some solids are evaporated with solvent
 - Some solids (like sugar) decompose or some may get charred on heating to dryness
 - Some impurities may remain dissolved in the solution even after filtration, which on evaporation contaminate the solid
 - Both (b) and (c)
29. In which of the following cases the heat energy is given out?
- When water boils.
 - When ice melts.
 - When water freezes to ice.
 - When water vapour condenses to water.
- (iii)
 - (iv)
 - (iii) and (iv)
 - (i), (ii) and (iii)
30. The shape of a shadow depends on which of the following?
- The colour of the screen
 - Shape of the opaque object
 - The colour of the object
 - All
31. Mark the incorrect statement.
- Chalk powder and talcum powder are insoluble in water.
 - Mustard oil and vinegar are soluble in water.
 - Sugar and salt are soluble in water.
 - The mass of the bob does not affect the period of a pendulum
32. Statement-A: Rotation of earth on its axis is a periodic motion but it is not a rotatory motion.
Statement-B: Motion of an engine piston is a translatory motion.
- Both the statements are correct
 - Statement A is incorrect, but statement B is correct
 - Statement A is correct, but statement B is incorrect
 - Both the statements are incorrect
33. How can you get the shortest period (in pendulum)?
- Decrease the length, and Increase the angle
 - Increase the length and decrease the angle.
 - Decrease the length and decrease the angle.
 - increase the length, and increase the angle



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Section-4, English

(1.5 marks for correct answer. 0.25 mark will be deducted for wrong answer)

34. Complete the following sentence:

Mother: Oh dear! I _____ left my wallet in the shop we just went to.

Son: We should go and check.

- a) Should
- b) Will have
- c) Must have
- d) Should have

35. Find the verb in the following sentence,

Jill sets the plates on the table.

- a) Table
- b) The
- c) Sets
- d) Plates

36. CHOOSE THE CORRECT MEANING OF THE GIVEN IDIOM.

once bitten, twice shy

- a) person will become double shy
- b) If you hit a person one time, he will become shy
- c) an unpleasant experience induces caution.
- d) None

37. CHOOSE THE CORRECT OPTION.

What is the correct spelling of the word that means to stand out?

- a) Prominense
- b) Prominence
- c) Promanence
- d) Prominanse

38. Change the voice.

I offered him a chair.

- a) A chair has been offered to him by me.
- b) He was offered a chair by me.
- c) A chair was offered to him by me.
- d) Both (B) and (C)

39. Fill in the blank.

Nobody _____ that he is innocent.

- a) Believes
- b) Is believing
- c) Believed
- d) Believe

40. Choose the correct synonym of the given word – **Vehement**

- a) Passionate
- b) Happy
- c) Apathetic
- d) Lethargic



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41. Identify the tense of the following sentence.
The government will be working for peace with Pakistan.

- a) Future indefinite tense
- b) Future perfect tense
- c) Present indefinite tense
- d) Future continuous tense

42. Find the pronoun. Give the book to me.

- a) Give me
- b) Book
- c) Me
- d) None

43. Find the nouns in the sentence.

The book was lying on the table.

- a) book, Table
- b) Table, lying
- c) Book, lying
- d) None

44. The underlined word in the given sentence is an example of _____.

Anyone can do this work.

- a) Possessive Pronoun
- b) Distributive Pronoun
- c) Emphatic Pronoun
- d) Indefinite Pronoun

45. Mark the sentence with correct adjective order:

- a) I have a black and white gown new.
- b) I have a black and white new gown.
- c) I have a new black and white gown.
- d) None of the above

Section-5, Scholars Section

(5 marks for correct answer. 2 marks will be deducted for wrong answer)

46. Fuse is connected to:

- a) Live wire
- b) Any wire
- c) Neutral wire
- d) Earth wire

47. Which match is incorrect?

- a) Repulsive Properties – Like magnetic poles repel each other and unlike magnetic poles attract each other.
- b) Aquatic plants - They are also referred to as macrophytes.
- c) Nocturnal - they have highly developed senses of hearing, smell
- d) Diurnal- they are active during the night-time.

48. Vineet is $\frac{1}{4} m$ shorter than Ashwin. If

Vineet is $1\frac{3}{8} m$ tall, how tall is Ashwin?

a) $1\frac{1}{6} m$

b) $1\frac{5}{8} m$

c) $1\frac{1}{4} m$

d) $1\frac{1}{8} m$



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49. Consider the following statements.

- i. The ratio of areas of two circles is 4:25 if the ratio of their radii is 2:5.
- ii. If each side of a square is 14 cm, then its area is 98 cm².
- iii. The areas of two circles are in the ratio 25:36. The ratio of their circumferences is 5:6.

Which of the statement is True or False?

- a) TTT
- b) TFT
- c) TFF
- d) FTT

50. The price of a product P increases by 40 paise every year, while the price of product Q increases by 15 paise every year. If in 2001, the price of product P was Rs.4.20 and that of Q was Rs. 6.30.

In which year product P will cost 40 paise more than product Q?

- a) 2010
- b) 2009
- c) 2008
- d) 2011



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Answer Key									
1 - C	2 - D	3 - D	4 - C	5 - C	6 - A	7 - D	8 - D	9 - C	10 - A
11 - C	12 - B	13 - D	14 - D	15 - C	16 - D	17 - A	18 - C	19 - D	20 - D
21 - A	22 - B	23 - A	24 - C	25 - A	26 - A	27 - C	28 - D	29 - C	30 - B
31 - B	32 - B	33 - C	34 - C	35 - C	36 - C	37 - B	38 - D	39 - A	40 - A
41 - D	42 - C	43 - A	44 - D	45 - C	46 - A	47 - D	48 - B	49 - B	50 - D