



Indian School Talent Search Exam (ISTSE)

Sample Paper (Paper Based Exam) – Class 6

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. At my house I am facing east, then I turn left and go 10m straight, then turn right and go 5m straight towards the south and from there 5m straight towards the west? Question: In which direction am I from my house?

a) South	b) East
c) West	d) North

2. If in a certain code 'PQMDS' is coded as 'ROOBU' then 'CDBXP' will be coded as:

a) EBCVR	b) EBDVR
c) EACVO	d) EFCZO

3. Which letter is 8th to the left of the 13th letter from the left of the English alphabet?

- a) H
- b) G
- c) E
- d) F

4. If '+' means 'multiplication'; 'x' means 'subtraction', '÷' means 'addition', and '-' means 'division', then

$$175 - 25 \div 5 + 20 \times 3 + 10 = ?$$

- a) 77
- b) 160
- c) 240
- d) 2370



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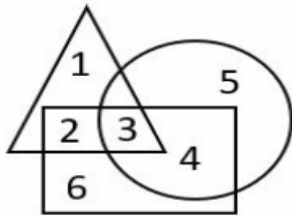
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5. Find the missing element.

W 35 S 31 _____ 27 N 23 M

- a) 23
- b) P
- c) T
- d) 18

6. The triangle represents boys, the square represents sportspersons and the circle represents coaches. The portion in the figure which represents boys who are sportspersons and coaches is _____.



- a) 6
- b) 2
- c) 4
- d) 3

7. I went 10m to the east from my house, then turned north and walked another 15m, then I turned west and covered 12m and then turned south and covered 15m. Question: How far I am from my house?

- a) 0 m
- b) 5 m
- c) 2 m
- d) 3 m

8. Select a figure from the options in which Fig. (X) is exactly embedded as one of its parts.

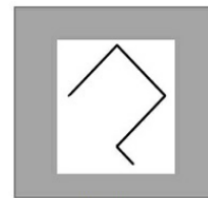
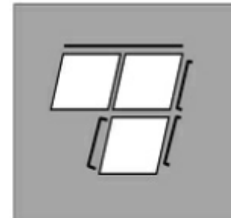


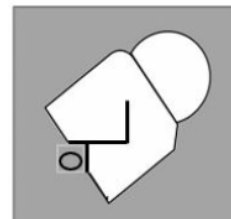
Fig. (X)



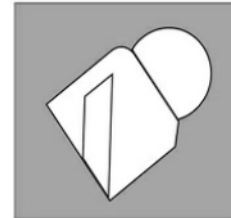
a)



b)



c)



d)



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9. Six persons Raj, Jiya, Rohit, Bani, Sonu and Mohit are standing in a circle. Jiya is between Mohit and Rohit, Raj is between Sonu and Bani, Mohit is to the right of Bani. Who is between Raj and Mohit?

- a) Bani
- b) Sonu
- c) Rohit
- d) Jiya

Section-2, Mathematics

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

10. In a group of 15 people who read a newspaper, 7 read Hindi, 10 read English. How many read both?

- a) 3
- b) 0
- c) 2
- d) None of these

11. Simplify: $45 - [38 - \{60 \div 3 - (6 - 9 \div 3) \div 3\}]$

- a) 12
- b) 22
- c) 36
- d) 26

12. There were 32 boys and 14 girls at a party. 5 boys and a certain number of girls left the party. After that, the ratio of the number of boys to the number of girls who remained at the party was 9:4. How many girls left the party?

- a) 12
- b) 2
- c) 11
- d) 8

13. The ratio of the sides of triangle $4 : 3 : 2$. The perimeter of the triangle is 108 cm. What is the length of the longest side?

- a) 48 cm
- b) 24 cm
- c) 12 cm
- d) 36 cm

14. Which properties is/are not applicable to the subtraction of whole numbers?

- a) Closure property
- b) Associative property
- c) Commutative property
- d) All of these

15. Select the CORRECT match.

- a) 1 million = 1 hundred thousand
- b) 1 crore = ten 10 lakhs
- c) 1 lakh = 100 ten thousand
- d) 1 million = 100 lakh

16. Simplify:

$$(3x - 2y - z) + (y + z - x) - (-2x + y - z).$$

- a) $4x + 2y + z$
- b) $4x - 2y + z$
- c) $4x + 2y - z$
- d) $-4x + 2y + z$

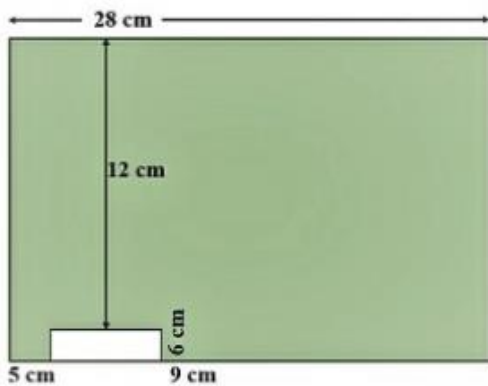


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17. Find the area of the shaded part in the given figure.



- a) 225 cm^2
- b) 572 cm^2
- c) 420 cm^2
- d) 564 cm^2

18. A crate contains 400 eggs. 8 dozen eggs were found spoiled. Find the percentage of good eggs in the crate.

- a) 36%
- b) 52%
- c) 76%
- d) 24%

19. Amit ordered 2 identical pizzas and divided one of them into 4 equal parts. He ate 1 full pizza and a part of the other pizza. How much pizza did he eat in all?



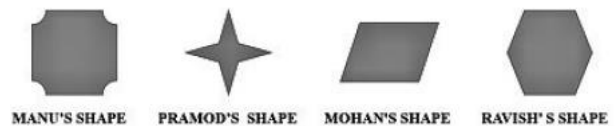
- a) $\frac{2}{5}$
- b) $1\frac{1}{4}$
- c) $1\frac{1}{3}$
- d) $\frac{1}{4}$

20. Simplify:

$$(-5y^3 + 4y^2 - 3y) - (6y^3 - 3y^2 - 10y)$$

- a) $11y^3 - 7y^2 - 7y$
- b) $-11y^3 + 7y^2 + 7y$
- c) $-11y^3 + 7y^2 - 13y$
- d) $11y^3 + y^2 + 7y$

21. Manu, Pramod, Mohan and Ravish are each given a piece of the same length. They bend the wires into different shapes as shown. For each shape, all the sides are EQUAL in length. Whose shape would have the longest sides?



- a) Manu's
- b) Ravish's
- c) Pramod's
- d) Mohan's



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Section-3, Science

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

22. An exoskeleton is the external skeleton that supports and protects an animal's body, in contrast to the internal skeleton, endoskeleton. Examples of animals with exoskeletons include insects such as _____.

a) Cockroaches	b) Lobsters
c) Grasshoppers	d) All

23. Fill in the blanks with suitable answers.

Test if a food item contains protein.

- 1) Take a small quantity of the food items to be tested.
 - 2) Grind or mash the food item.
 - 3) Put the food item into a test tube.
 - 4) Add 10 drops of water and shake the test tube.
 - 5) Using a dropper add two drops of _____ solution to the test tube.
 - 6) Add 10 drops of _____ solution and shake the test tube.
 - 7) Observe the colour of the mixture.
 - 8) _____ colour indicates the presence of proteins in the tested food item.
- a) copper sulphate, caustic soda, Violet
b) caustic soda, iodine solution, brownish
c) copper sulphate, iodine solution, purple
d) Carbohydrate, copper sulphate, blue

24. Anjali placed a meter stick in the playground at 8.00 a.m. in the morning. How will the shadow of the stick at 12:00 noon be in comparison to the one at 8:00 a.m.?
- a) The shadow will be shorter and on the other side of the Sun.
 - b) There will be no shadow.
 - c) The shadow will be longer and on the opposite side of the stick.
 - d) The shadow will be shorter and on the same side as the Sun.
25. Which of the following statements is not true?
- a) Coir is obtained from outer covering of the fruit of coconut.
 - b) The process of making yarn from fibers is called as spinning.
 - c) Jute is a biodegradable product.
 - d) Wool cannot retain air between its fibers and thus it cannot retain body heat.
26. Four students (1,2,3,4) were supplied with a number of clothes made up of cotton, wool, silk, jute, nylon and polyester. The teacher asked them to separate these according to natural and synthetic fibers. The students separated these as follows:
- 1) Cotton, wool and jute as synthetic and silk, nylon and polyester as natural
 - 2) Cotton, wool and jute as natural and silk, nylon and polyester as synthetic
 - 3) Cotton, wool, silk and jute as natural and nylon and polyester as synthetic
 - 4) All as synthetic and none as natural

Question: Who was correct among the four?

a. 4	b. 2
c. 1	d. 3



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27. Tweezers is an example of:

- a) Lever of class I
- b) Lever of class III
- c) Lever of class II
- d) All of these

28. The direction of current in an electric circuit is from

- a) the negative to the positive terminal of the electric cell.
- b) the positive to the negative terminal of the electric cell.
- c) both 'a' and 'b'.
- d) none of these.

29. Cause and remedies for athlete's foot.

- a) Virus, Hydrogen peroxide
- b) Fungi, Tea tree oil
- c) Fungi, Hydrogen peroxide
- d) B and C both

30. How much work is done if a force of 30 N is applied on a body at rest and body moves a distance of 4m?

a) 100 J	b) 120 J
c) 130 J	d) 200 J

31. A mixture of tea leaves and iron fillings can be separated by:

- a) magnet
- b) Sieving
- c) hand picking
- d) filtration

32. Difference between Umbra and Penumbra?

- a) Penumbra is darker shadow, Umbra is lighter shadow
- b) Umbra is darker shadow, Penumbra is lighter shadow
- c) B is true and A is False
- d) None

33. Fill in the blanks with correct answers.

- 1) We can easily test if a food item contains _____.
 - 2) Take small quantity of the food items to be tested.
 - 3) Put 2-3 drops of _____ on it.
 - 4) See the colour of the food item.
 - 5) It turns into Blue-black colour
-
- a) Starch, iodine solution
 - b) Carbohydrate, copper sulphate
 - c) Vitamin, copper sulphate
 - d) Protein, iodine solution

Section-4, English

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

34. Complete the following sentence.

I am seriously fed up _____ him _____ his addiction _____ smoking.

- a) for / of / with
- b) to / of / for
- c) with / for / to
- d) none of these

35. In which of these words is the letter 'P' Not pronounced?

- a) Recipe
- b) Respire
- c) Receipt
- d) Repeat



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36. CHOOSE THE OPTION WITH THE CORRECT NARRATION.

The preacher said, "We are all sinners".

- a) The preacher said that we are all sinners
- b) The preacher told them they were all sinners
- c) The preacher said that we are all being sinners
- d) The preacher said they were all sinners

37. Choose adjective in the following sentence.

They are very playful.

- a) They
- b) Playful
- c) Very
- d) Are

38. Choose the option which has an adverb:

- a) Fast pace
- b) To lead fast lives
- c) Fast friends
- d) Run fast

39. Choose the answer that includes all of the nouns in the following sentence:

Amit hit the ball over the fence.

- a) Ball, fence
- b) Amit, ball, fence
- c) Amit, hit ball, fence
- d) None

40. CHOOSE THE MOST SUITABLE OPTION FOR THE CONVERSATION.

Mother: Oh, dear! _____ you fall over?

You have bruised your knee!

Son (crying): Yes!

- a) Don't
- b) Do
- c) How
- d) Did

41. Find the word with correct spelling.

- a) Occurrence
- b) Occurance
- c) Occurence
- d) Ocurrence

42. Choose adjective in the following sentence.

They have a white belly.

- a) Belly
- b) Have
- c) They
- d) White

43. Identify the kind of pronoun of the word underlined in the following sentence:

Each of the answers is correct.

- a) Reflexive pronoun
- b) Distributive pronoun
- c) Demonstrative pronoun
- d) Indefinite pronoun

44. CHOOSE THE MOST SUITABLE WORD / PHRASE TO COMPLETE THE SENTENCE.

Five years have passed _____ Leena left school.

- a) since
- b) for
- c) before
- d) because

45. Fill in the blank with correct conjunction.

A book is a book _____ there is nothing in it.

- a) Although
- b) Lest
- c) Unless
- d) Because



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Section-5, Scholars Section

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

46. The property of a substance to absorb moisture from the air on exposure is called.
- Efflorescence
 - Deliquescence
 - Desiccation
 - Osmosis

47. Nishchal and Sridevi are answering a paper containing 100 very simple questions. For each 5 correct answers, one gets a chocolate.

As per the rule and the result, Nishchal got 15 chocolates and Sridevi got 10 chocolates.

Question: Which of the following is true?

- Nishchal got 1 more question right than Sridevi
 - Nishchal got 25 more questions right than Sridevi
 - Nishchal got 5 more questions right than Sridevi
 - Nishchal got 10 more questions right than Sridevi
48. Raj, Gaurav, and Amit are fast friends. They

started painting a wall. Raj paints $\frac{2}{15}$ of the wall, Gaurav paints $\frac{1}{24}$ of the wall and Amit paints $\frac{3}{10}$ of the wall.

Read the statements related to above situation and answer the question given below.

Statement 1: Gaurav painted the least portion of the wall.

Statement 2: $\frac{1}{18}$ portion of the wall is unpainted.

Question: - Which of the following option holds true?

- Both statement 1 and statement 2 are false
- Statement 1 is true but statement 2 is false
- Both statement 1 and statement 2 are true
- Statement 1 is false and statement 2 is true

49. Match the column I with column II and select the correct option from the codes given below.

	Column-I		Column-II
(a)	Removal of larger particles from smaller ones	(i)	Sieving
(b)	Separation of cream from milk	(ii)	Filtration
(c)	Separation of mixture of mud and water	(iii)	Churning
(d)	Separation of grains from stalks	(iv)	Threshing

- (a) -(i), (b)-(ii), (c)-(iii), (d)-(iv)
- (a) -(i), (b)-(iii), (c)-(ii), (d)-(iv)
- (a) -(i), (b)-(iii), (c)-(iv), (d)-(i)
- (a) -(iv), (b)-(ii), (c)-(iii), (d)-(i)



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50. An energy of 1000 calories is stored in the grass. What amount of energy will be received by the bird?

DO YOUR ROUGH WORK HERE



- a) 100 calories
- b) 1 calorie
- c) 10000 calories
- d) 1000 calories



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