INDIAN SCHOOL SALALAH

SECOND TERM EXAMINATION, 2018-19

Subject: Mathematics **Time Allowed: $2\frac{1}{2}$ hours**
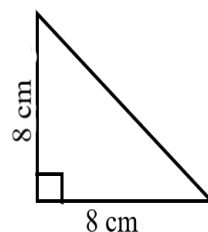
Class: VI **Max. Marks: 80**

GENERAL INSTRUCTIONS

a) All the questions are compulsory.

b) This question paper consists of 30 questions.

c) Section A contains 6 questions of 1 mark each. Section B contains 6 questions of 2 marks each. Section C contains 10 questions of 3 marks each. Section D contains 8 questions of 4 marks each.

SECTION A

Question numbers 1 to 6 carry 1 mark each.

1. Write two negative integers greater than (-10).

2. Name the given triangle in two different ways.

3. What fraction of an hour is 35 minutes?

4. A box weighs 8 kg. Write a rule to find the weight of 'x' such boxes.

5. Which is greater? 2.52 or 2.502

6. The length of a rectangle is 40 cm and its breadth is 25 cm.

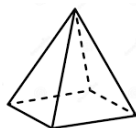   Find the ratio of its breadth to length.

SECTION B

Question numbers 7 to 12 carry 2 marks each.

7. Represent the following fractions on the same number line.

   $\dfrac{2}{6}, \dfrac{7}{6}, \dfrac{5}{6}, \dfrac{3}{6}.$
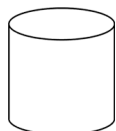
8. Identify the following shapes and answer the following.

   i)
   a) Name of the shape:_____
   b) No. of faces: ____

   ii)
   a) Name of the shape:_____
   b) No. of edges____

9. Subtract (-21) from 19.

10. Aman designed a triangular shaped tile of perimeter 125 cm. If two of its sides are 48 cm and 35 cm, find the length of third side.

11. Are the ratios 25 litre : 30 litre and 40 kg : 48 kg in proportion? Give reason.

12. Draw any line segment PQ. Take any point 'M' not on it. Through 'M' draw a perpendicular to PQ using ruler and compasses only.

SECTION C

Question numbers 13 to 22 carry 3 marks each.

13. Write each of the following as decimals.

   a) Eleven point zero two five.   b) $500 + 20 + \dfrac{6}{10}$ c) $\dfrac{2}{5}$

14. Draw a line segment PQ of length 8.4 cm and construct its perpendicular bisector using ruler and compasses. What is the length of each part of the line segment PQ ?

15. Hemanth took $\dfrac{4}{5}$ of an hour to paint a picture. Kavita finished her painting in $\dfrac{3}{4}$ of an hour. Who took more time and by how much?

16. Find the cost of fencing a square park of side 75 m at ₹ 16 per metre.

17. A bag of 20 kg of tomatoes costs ₹ 480. What is the cost of 6 kg of tomatoes?

18. Find the solution of the equation from the values of the variable given in the bracket and also show that the other values do not satisfy the equation.

   $p + 5 = 12$ (7, 0, −8)

19. Fill in the blank with < , > or = sign. Give reason.

   $27 - (- 72)$ _____ $72 + (−27)$

20. Divide 432 marbles between Sohan and Varun in the ratio 4: 5. How many marbles will each get?

21. State True or False.

   a) A polygon with 5 sides is called as Hexagon.

   b) Square is a regular polygon.

   c) The measure of each angle in Rhombus is 90^0.

22. Find the value of

    a) $13.25 + 9.005 + 12$ b) $38.4 - 8.695$

SECTION D

Question numbers 23 to 30 carry 4 marks each.

23. There are 156 big flower pots and 240 hanging flower pots in a garden. Find the ratio of

    a) Number of big flower pots to the number of hanging flower pots.

    b) Number of hanging flower pots to the total number of flower pots.

24. Find the value of : $(-31) - (-19) + 52 + (-45)$

25. a) Fill in the box given below with a correct number to make the fractions equivalent.

$$\frac{45}{60} = \frac{9}{\Box}$$

    b) A school bus travels $6\frac{2}{3}$ km in the morning and $7\frac{1}{2}$ km in the afternoon. How much distance does the bus travel in a day?

26. Construct the following angles only using ruler and compasses.

    a) 30^0 b) 90^0

27. Write expressions for the following.

    a) 5 added to the product of 3 and 'y'.

    b) (-12) divided by 'p' .

    c) Ram's present age is 'x' years. What will be his age after 12 years?

    d) Aman had ₹ 'p'in his pocket. He spent ₹ 16. How much money is left over with Aman?

28. Sabitha bought 5 kg 750 g flour, 2 kg 500 g sugar and 3 kg 525 g butter to make cookies. Find the total weight of the items bought by her in kilograms.

29. From a rectangular chart paper of length 100 cm and breadth 80 cm, six squares of side 20 cm each were removed. Find the area of the remaining chart paper.

30. Answer the following.

a) Which direction will you face, if you start facing west and make $\frac{3}{4}$ of a revolution clockwise.

b) A bicycle wheel takes one and a half turn. Find the number of right angles through which it turns?

c) What is the measure of the angle formed between the two hands of a clock at 4 O' clock.

d) What type of angle is 150^0?

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