Roll No. ....

Code : S8MA701

KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION
SESSION ENDING EXAMINATION- 2018-19

CLASS – VII
MATHEMATICS

Sl. No. ___2643___

Time - 2½ Hrs.]

[Maximum Marks - 80

General Instuctions :–

(i)   Attempt all the questions.

(ii)   This question divided into four sections :- A, B, C, D.
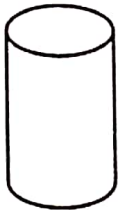
Section A carry 1 mark each.

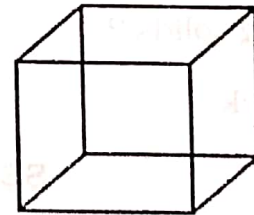Section B carry 2 marks each.

Section C carry 3 marks each.

Section D carry 4 marks each.

SECTION – A (1 × 6 = 6)

1.   Write the name of the given figure.

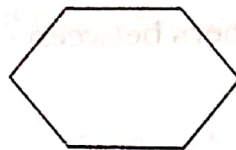I...........................   II....................

2.   Find the number of lines of symmetry in given figure.

Turn Over

3.   Which one is greater 8^2 or 2^8 ?

4.   Simplify : $(-4)^3$

5.   Find the value of $5x - 2$ when $x = -2$

6.   Find the area of a square when one side is 8 cm.

SECTION – B (2 × 6 = 12)

7.   6 bowls cost Rs 90. What would be the cost of 10 such bowls ?

8.   The area of rectangular sheet in 500 cm². If the length of the sheet is 25 cm. Find the width ? Also find the perimeter of the rectangular sheet.

9.   Simplify and write the answer in the exponential form.

$(6^2 \times 6^4) \div 6^3$

10. Find the number of line of symmetry for the following figures.

(i) Equilateral Triangle   (ii) Square

11. If two cubes of dimensions 4 cm by 4 cm are placed side by side, what would be the dimension of resulting cuboids ?

12. What shape do you get when you give (i) Vertical cut (ii) horizontal cut to the following solids ?

(a) A brick   (b) A Die

SECTION – C (3 × 10 = 30)

13. Reeena's mother said to make Idlis, you must take two part rice and one part Urad dal. What percentage of such a mixture would be rice and what percentage would be Urad dal ?

14. Find any three rational members between - 6 and 2.

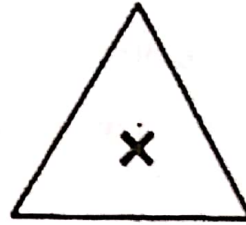15. Simplify : $2^3 \times a^3 \times 5a^4$

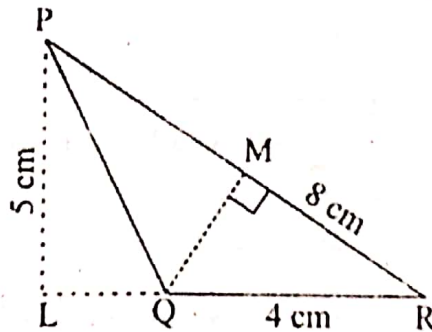16. Give the order of rotational symmetry for each figure.

       (a)   **(b)**   **(c)**

17. Construct a triangle PQR, given that PQ = 3 cm, QR = 5.5cm and angle PQR = 60°.

18. Find the product by using suitable properties.

$$26 \times (-48) + (-48) \times (-36)$$

19. The area of a square and rectangle are same (equal). If the sides of the square in 40cm and the breadth of the rectangle in 25 cm. Find the length of the rectangle. Also find the of the perimeter of the rectangle.

20. In $\triangle PQR$, PR = 8 cm, QR = 4 cm, and PL = 5 cm

Find : (i) The area of the $\triangle PQR$

        (ii) QM

21. Simplify the expression and find the value if $x = 2$

4(2x – 1) + 3x + 11

22. From the sum of $3x - y + 11$ and $-y - 11$ subtract $3x - y - 11$

Turn Over

SECTION-D (4 × 8 = 32)

3. If Manohar pays on interest of Rs. 750 for 2 years on a sum of Rs. 4500. Find the rate of interest.

4. Represent these numbers on the number line

   I. 9/4 II. -5/6 III. 3/7 IV. -6/9

25. Construct an isosceles right angled triangle ABC, where angle ACB = 90° and AC = 6 cm.

26. A path 5 m wide sums along inside a square park of side 100 m. Find the area of path. Also find the cost of cementing it at the rate of Rs. 250 per 10 m².

27. From the sum of $2b^2 + 3bc$, $- b^2 - bc - c^2$ and $bc + 2c^2$ subtract the sum of $3b^2 - c^2$ and $-y^2 + bc + c^2$

28. Express the following numbers in the standard form.

   I. 5985.3 II. 65950 III. 3430000 IV. 70040000000

29. Fill in the blanks :

S.N.	Shape	Order of rotation	Angle of rotation
I.	Square		
II.	Rectangle		
III.	Equilateral Triangle		
IV.	Regular Hexagon		

30. Irfan says that he has 7 marbles more than 5 times the marbles permit has. Irfan has 37 marbles. How many marbles does permit has ?

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