AMRITA VIDYALAYAM

ANNUAL EXAMINATION 2017 - '18

Class : VI   **Marks : 80**

                                                     Time : 2½ hrs

MATHEMATICS

General Instructions:

1. All questions are compulsory.

2. The question paper consists of 30 questions divided into four sections A, B, C and D.

3. Section A (Q.1 to 6) carries 1 mark each.
   Section B (Q.7 to 12) carries 2 marks each.
   Section C (Q.13 to 22) carries 3 marks each.
   Section D (Q.23 to 30) carries 4 marks each.

4. Use of calculator is not permitted

SECTION - A

1. Mohan makes the letter Z using wooden sticks. How many acute angles are formed in making Z?

2. How many whole numbers are there between 32 and 53?

3. Write the expression obtained when 'x' is taken away from 50.

4. Draw an angle of 75^0.

5. Find the value of 'x', if x : 57 = 85:51.

6. Reduce the following fractions to the simplest form :
   a) 48/60   b) 27/81

SECTION - B

7. Write the following decimals in the place value table.
   a) 0.29   b) 148.256   c) 19.01

8. Give expressions for the following statements.
   a) 5 times y from which 3 is subtracted.
   b) -p divided by 5.

9. Find the value of.
    a) (- 7) - 8 - (-25)
    b) (-48) - (-10) + 20 – 4 - (-2)
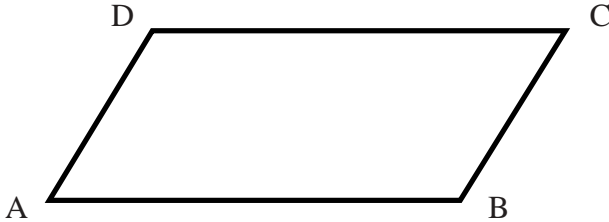10. Draw line segment PQ of length 5.8cm and find its axis of symmetry.
11. Simplify.

$7\frac{2}{3} - 4\frac{1}{4} + 1\frac{1}{6}$

12. What part of the revolution have you turned through if you stand facing
    a) East and turn clockwise to face North.
    b) West and turn clockwise to face East.

SECTION - C

13. Find the value of each of the following using various properties.
    a) $887 \times 10 \times 461 - 361 \times 8870$
    b) $3845 \times 5 \times 782 + 769 \times 25 \times 218$
14. Karan earns ` 5,600/- per month while Kamala's monthly income is ` 10,800/-. If the monthly expenditure of each of them is ` 4,200/-, find the ratio of their savings.
15. Draw a circle with radius 3.2cm and center O. Draw two of its diameters PQ and RS. Join end points of diameters. What kind of figure do you get?
16. Determine the following are in proportion.
    a) 32,48,140,210   b) 24,28,36,48
17. Use a number line to find.
    a) Successor of - 6.   b) Predecessor of + 3.
    c) Largest negative number.
18. Preethi had one rope of $5\frac{1}{6}$ m length and another of $3\frac{1}{2}$ m length. How much length of rope did Preethi have in all?
19. Sunitha travelled 15Km 268m by bus, 7Km 7m by car and 500m on foot in order to reach her school. How far is her school from her residence?

20. ABCD is a parallelogram as shown below.

   a) Name the pair of equal sides.
   b) Name the pair of equal angles.
   c) Name the diagonals.
21. One more than thrice the Ravi's age is 19. Then
   a) form an equation with expression.
   b) Is Ravi's age 5 or 6? Give reason.
22. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of the triangle you have drawn.

SECTION - D

23. Chintu is x year old. Express the following in algebraic form.
   a) Four times Chintu's age next year.
   b) Three times Chintu's age 4years ago.
   c) The present age of Chintu's uncle, if her uncle is four times as old as Chintu.
   d) The present age of Chintu's cousin if his cousin is 3 years younger than Chintu.
24. The cost of 12 dozen bananas is ` 720. Abhishek has ` 1,500 with him. He wants to distribute one banana to each person on the street. How many bananas can he buy? Mention the value you depict from this act of Abhishek?
25. Find the value of
   a) 341 + 210 + (-401) + (-214)
   b) (-56) + 32 – (-41) + 3

26. The population of a village was 68,000. In one year it was increased by 5,463 due to new births. However, 8,242 persons died or left the village during the year. What was the population at the end of the year?

27. Simplify. 11.690 + 15.705 - 3.067

28. Asha and Seeta have book shelves of the same size partly filled with books. Asha's shelf is 5/6th full and Seeta's shelf is 2/5th full. Whose book shelf is more full? By what fraction?

29. Using ruler and compass, construct an angle of 150°.

30. Complete the following table.

Names	Number of faces	Number of vertices	Number of edges
a) Cone			
b) A Rectangular pyramid			
c) Cylinder			
d) Sphere			