AMRITA VIDYALAYAM

ANNUAL EXAMINATION 2018 - '19

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. How many faces are there in a cube?
2. Write the ratio of 1 hour to 45 minutes.
3. Find the side of a regular hexagon if its perimeter is 54 cm.
4. Write the integer which is its own additive inverse.
5. Which one is greater?
   1 m 40 cm + 60 cm or 2.6 m.
6. What is a unit fraction?

SECTION - B

7. Simplify.
   a) 11.6 - 9.847   b) 9.06 + 0.094 + 10.006
8. In an examination the grades achieved by 30 students of class VI are given below.
   B, C, C, A, E, B, B, C, D, D, B, A, D, B, D, D, B, C, C, A, C, B, B, E, A, D, C, B, E, C
   Arrange these grades in a table using tally marks.

9. How many right angles make
   a) complete angle?   b) a straight angle?
10. Determine whether 33, 44, 75, 100 are in proportion.
11. Find the sum of 2 and -7 using the number line.
12. Write two integers whose sum is 6 and difference is also 6.

SECTION - C

13. Draw a line segment AB of length 6.7 cm and find its axis of symmetry.
14. A floor is 5 m long and 4 m wide. A square carpet of side 3 m is laid on the floor. Find the area of the floor that is not carpeted.
15. Solve.
   a) $2/5 + 1/6$
   b) $1\frac{1}{3} + 3\frac{2}{3}$
16. Renu's school is at a distance of 3 km 250 m from her house. She travels 1 km 20 m on foot and the rest by bus. How much distance does she travel by bus?
17. The cost of a dozen bananas is ` 48. How much do 75 bananas cost?
18. Fill in the blanks.

   a) ∠AOD is a/an _____ angle.
   b) ∠COA is a/an _____ angle.
   c) ∠AOE is a/an _____ angle
19. The sum of two integers is 236. If one of them is -122, find the other integer?

2 - VI Math

20. Convert.
   a) 6952 g to kg　　　　　　　　b) 1020 paise to `
   c) 9 m 8 cm to m
21. Which direction will you face if you start facing,
   a) east and make ½ a revolution clockwise?
   b) west and make ¾ of a revolution anti-clockwise?
22. Subtract 28.353 from 81.242 and add it to the sum of 625.428 and 39.999.

SECTION - D

23. Rohit got ` 100 from his aunty as pocket money. He bought a book for ` 35.75 and a pen for ` 12.50 and gave it to his maid's son. How much money was left with him? And what kind of boy was Rohit?
24. Give two differences between
   a) A rhombus and a square.
   b) A rectangle and a parallelogram.
25. Find the area of the shaded region.
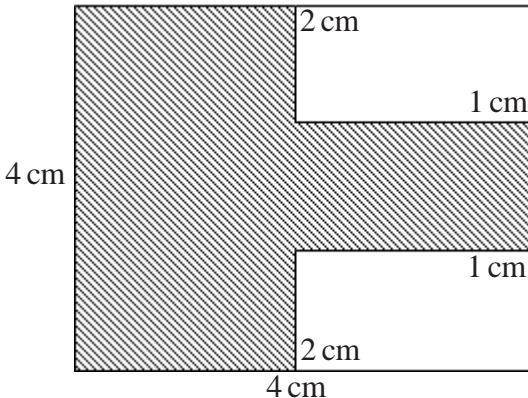
26. Compute each of the following.
   a) (-13) + 32 - 8　　　　　　　b) -32 - (-18)
   c) 50 - (-40) - (-2)　　　　　　d) -4 + 26 + (-13)

27. A vendor bought 13 dozens of bulb out of which 40 were found to be defective. What is the ratio of
    a) defective bulbs to the total number of bulbs?
    b) non-defective bulbs to defective bulbs?
28. Draw a right angle and construct its bisector.
29. In a survey 80 students were asked to vote for their favourite subject from English, Maths and Science. 1/4 of the students voted for Science, 1/5 voted for English and the rest voted for Maths. How many more votes did Maths receive than English?
30. In a school library the numbers of different types of books are found as follows.

Types of books	Number of books
Hindi	500
English	600
Maths	200
Science	450
Social Science	950

Draw a bar graph to represent the above information.