AMRITA VIDYALAYAM

HALF YEARLY EXAMINATION 2017 - '18

Class : VI **Marks : 80**
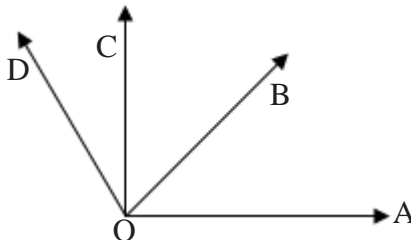
Time : 2½ hrs

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 comprises of 6 questions of 1 mark each.
   Section B comprises of 6 questions of 2 marks each.
   Section C comprises of 10 questions of 3 marks each.
   Section D comprises of 8 questions of 4 marks each.
4. Use of calculator is not permitted

SECTION - A

1. Write the first 4 multiples of 8.
2. Find the radius of a circle whose diameter is 18 cm.
3. How many lines can be drawn through a point?
4. Is every factor of a number an exact divisor of that number?
5. In Roman numeral C stands for _____.
6. Which whole number is the predecessor for the smallest natural number?

SECTION - B

7. How many angles are there in the following figure? Name them.

1 - VI Math

8. Write in Roman numerals.

    a) 95   b) 47

9. List all the prime numbers between 1 and 30.

10. Express 40 as the sum of two odd primes.

11. Write the expression for the following.

    a) Seventy seven divided by two times the sum of four and two.

    b) The product of nine and three added to the difference of nineteen and seven.

12. Give suitable answer.

    a) If a number is divisible by 9, it must be divisible by which number?

    b) What should be the last digit for a number to be divisible by 5?

SECTION - C

13. The number of cricket bats sold by a shop during a week are given below. Represent it by a pictograph.

Days	Mon	Tue	Wed	Thu	Fri	Sat
No. of bats	20	12	24	32	8	16

14. Write whether true or false.

    a) All natural numbers are whole numbers.

    b) Two diameters of a circle will intersect each other.

    c) 499 is the successor of 500.

15. Define.

    a) A sector.   b) A segment.

    c) Circumference of a circle.

16. A dice was thrown 30 times and the following outcomes were noted.

    4, 3, 3, 2, 5, 4, 4, 6, 1, 2, 2, 3, 4, 6, 2, 3, 3, 4, 1, 2, 3, 3, 4, 5, 6, 3, 2, 1, 3, 4

    Represent the above data in the form of frequency distribution.

17. Using divisibility test find whether 90104 is divisible by 11.

18. Calculate the H.C.F of 12, 16 and 28.

2 - VI Math

19. Estimate the following.

    724 + 114 – 96
20. Find the prime factorization of 1024.
21. Fill in the blanks.

    a) _____ is the only even prime number.

    b) 1 crore = _____ million.

    c) Any natural number × 1 = _____.
22. Find the value by suitable rearrangement.

    a) 445 + 600 + 555 + 1400   b) 8 × 125 × 452

SECTION - D

23. Find the smallest number which when divided by 25,40,60 leaves reminder 7 in each case.
24. Ramesh goes to the market with ` 2,500. He buys a pair of shoes for ` 1,000 a shirt for ` 560 and a trouser for ` 800. How much money is left with him?
25. The following table gives the export figures of a country. Draw a bar graph choosing a scale of your choice.

Years	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004
` in crores	800	1000	1250	1450	1550	2000

26. Find the value of following using suitable properties.
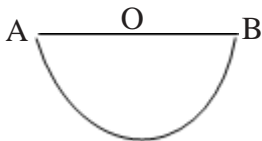
    a) 667 × 1004   b) 1624 × 8 + 1624 × 92
27. Identify the figure.

    a) Name its diameter.
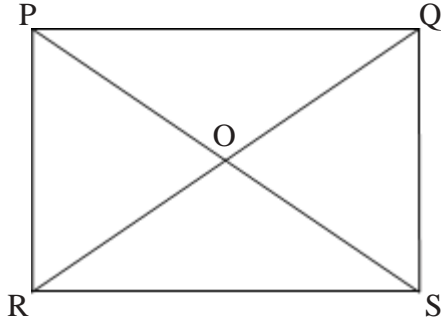
    b) Name its radius.

    c) Name its arc.

28. A school charges ` 150 as activity charges and ` 75 as library charges per month. How much does a student pays for 7 months altogether?

29. From the given figure name.
   a) Pair of adjacent sides.   b) Pair of opposite sides.

30. Draw any circle and mark.
   a) Its centre   b) A radius   c) A sector
   d) A segment   e) A diameter   f) An arc
   g) A point in the interior   h) A point in the exterior