

MATHEMATICS, CLASS VI

TIME: 2hrs 45mins.

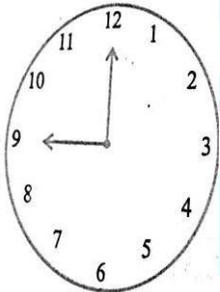
M M: 80

GENERAL INSTRUCTIONS:

1. All questions are compulsory.
2. Q no. 1 to 5 carry 1 marks each,
Q no. 6 to 15 carry 2 marks each,
Q no. 16 to 25 carry 3 marks each and
Q no. 26 to 30 carry 5 marks each.
3. Draw neat figures wherever required.

1. Arrange the following in descending order
1971, 45321, 88715, 92547
2. Find the product by suitable rearrangement
 $4 \times 23 \times 25$
3. Test whether the following is divisible by 6
396
4. What is the measure of a right angle?
5. Give an example of parallel lines from your surroundings.
6. Insert commas and the name according to Indian system of numeration
87595762
7. Express the following as sum of two odd primes:
(a) 36 (b) 24
8. Draw rough diagram to illustrate (a) open curve (b) closed curve
9. Draw a rough sketch of a quadrilateral PQRS. state
(a) two pairs of opposite sides
(b) Two pair of opposite angles
10. Find two common multiples of 3 and 5
11. Using suitable property find the value of
 $837 + 208 + 363$
12. Write roman numerals for (i) 69 (ii) 98
13. Write true or false :
(a) Two diameters of a circle will necessarily intersect.
(b) The centre of a circle is always in its interior.

14. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices draw a triangle. Identify the type of triangle you have drawn
15. Solve using distributive property
 $126 \times 55 + 126 \times 45$
16. Using divisibility test determine whether 21084 is divisible by 8 or not.
17. Estimate according to the general rule
 - (i) $730 + 998$
 - (ii) $1210 - 492$
18. A cuboid has :
 - (a) Faces
 - (b) Edges.....
 - (c) Corners
19. Illustrate each with a rough diagram
 - (a) A closed curve that is not a polygon.
 - (b) An open curve made up of entirely line segments.
 - (c) A polygon with two sides.
20. Find the angle measure between the hands of the clock in each figure



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21. Draw rough diagrams of two angles such that they have
 - (a) one point in common.
 - (b) three points in common.
 - (c) one ray in common.
22. Find the difference between the greatest and smallest number that can be written using the digits 6, 2, 7, 4, 3 each only once
23. I am the smallest number, having four different prime factors. Can you find me
24. Fill in the blanks :
 - (a) the smallest composite number is
 - (b) the smallest prime number is
 - (c) 1 is neithernor

25. Write five pairs of prime numbers less than 20 whose sum is divisible by 5

26. Estimate (a rough and also a closer) of the product using general rule:

(i) 578×161 (ii) 9250×29

27. Give two examples of each shape: cone , cuboid , cylinder , sphere and pyramid.

28. Match the following

A

(i) One pair of parallel sides

(ii) 8 sided polygon

(iii) a triangle with all sides equal

(iv) a triangle with one right angle

(v) a rhombus with 4 right angles

B

(a) octagon

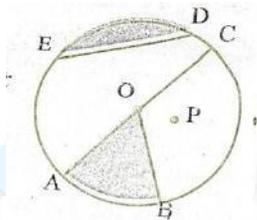
(b) square

(c) equilateral

(d) parallelogram

(e) right angled triangle

29. From the figure, identify :



(i) The centre of circle (ii) a diameter (iii) a segment (iv) a sector (v) a radius

30. Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder`7 in each case