

A K M PUBLIC SCHOOL
FIRST SEMESTER EXAMINATION(SAMPLE QUESTION PAPER)
CLASS VI **MATHEMATICS** **Time:2hrs**
Marks:50

Choose the correct answer from the bracket.(10marks)

1. Sum of first three whole numbers is _____.
a) 0 b) 2 c) 3 d) 6
2. A triangle having three equal sides is called _____.
a) scalene triangle b) isosceles triangle c) Equilateral triangle.
3. The predecessor of 20999 is _____.
a) 21000, b) 20910 c) 20998
4. Prime factorisation of 50 is _____.
a) $2 \times 5 \times 25$ b) $5 \times 5 \times 5$ c) $2 \times 5 \times 5$
5. How many diagonals are there in a pentagon?
a) 2 b) 3 c) 4 d) 5
6. Sum of angles of a triangle is _____.
a) 90° b) 180° c) 270° d) 360°
7. _____ is a simple closed figure made up entirely of line segments
a) Circle b) Polygon c) Quadrilateral
8. Give an example of twin prime.
a) (5,11) b) (3,5) c) (7,11) d) (3,7)
9. If $13 \times 1 = 13$, then 1 is called _____.
a) additive identity b) multiplicative identity
c) commutativity.
10. Assertion (A): Any number when multiplied by 1, results the number itself.
Reason(R) : $17 \times 1 = 17$
a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.

Fill in the blanks.

(9marks)

11. _____ is the longest chord.
12. An angle whose measure is less than 90° is called _____.
13. _____ is a polygon formed by 4 line segments.
14. The product $4 \times 325 \times 25$ is _____.
15. LCM of 3 and 7 is _____.
16. _____ is made up of two rays starting from a common end point.
17. Perpendicular lines make an angle of _____°.
18. Instrument used to measure angle is called _____.
19. _____ has only one end point and extend endlessly in one direction.

Questions 20 to 24 carry 2 marks each.

20. Find the product using suitable properties
 258×108
21. Check whether the following number is divisible by 6. (17832)
22. Find the HCF of 18,60.

23. Determine the smallest 3-digit number which is exactly divisible by 6,8 and 12.
24. Write first five multiples of 9 (10marks)

Questions 25 to 28 carry 3 marks each.

25. Name the types of triangles.
a) Triangle with lengths of sides 7cm, 8 cm, and 9.cm
b) Triangle PQR such that $PQ = QR = PR = 5\text{cm}$.
c) Triangle DEF with angle $D = 90^\circ$.
26. Draw any circle and mark (12 marks)
a) centre b) radius c) diameter
d) sector e) segment f) chord.
27. Construct angle $ABC = 120^\circ$.
28. Using the divisibility test determine which of the following numbers are divisible by 2, 3, 5, and 9. (1258 , 3903 , 275 , 2170 , 1281 , 9999)

Question 29 carries 4 marks.

29. Draw a rough sketch of a quadrilateral KLMN State
a) two pairs of opposite sides.
b) two pairs of opposite angles.
c) two pairs of adjacent sides.
d) two pairs of adjacent angles.
(4marks)

Question 30 carries 5 marks.

30. The population of Kerala in 2015 was 19072564 and it increased to 98432701 in 2021.
a) Write the population of 2021 in Indian system of numeration.
b) The successor of 19072564 is _____.
c) What is the place value of 4 in 98432701.
d) Write the population of 2021 in expanded form.
e) Write the population of 2015 in words according to international system of numeration.
(5 marks)