

ASSESSMENT MARCH – 2024 MODEL QUESTION PAPER**Class : 8****Subject: Mathematics****Marks: 50****Bengaluru South - 1****Time: 2hr. 30min**

I. Four alternatives are given for each of the following questions/incomplete statements. Choose the appropriate one and write along with the alphabets.

16x1=16

1. The reciprocal of $\frac{-6}{-5}$ is
a) $\frac{6}{5}$ b) $\frac{5}{6}$ c) $\frac{-6}{5}$ d) $\frac{-5}{6}$
2. The property of rational numbers indicated by $\left(\frac{-7}{3}\right) \times \frac{6}{5} = \frac{6}{5} \times \left(\frac{-7}{3}\right)$ is
a) Closure b) Associativity c) Distributivity d) Commutativity
3. The number of zeros at the end of square of 120 is
a) 2 b) 4 c) 0 d) 1
4. The value of P in $p + 4 = 15$ is
a) 10 b) 19 c) 11 d) 7
5. The coefficient of m in $6m^2$ is
a) 6m b) 6 c) m d) m^2
6. The inverse proportion among these is
a) Area of cultivated land and the crop harvested
b) The number of boys in a hostel and food grains needed for them
c) The number of workers on a job and the time to complete the job
d) The time taken for a journey and the distance travelled in a uniform speed.
7. The outcomes of getting a prime number when a die having 1 to 6 numbers is thrown.
a) 2, 4 and 6 b) 1, 3 and 5 c) 1, 3, 2 and 5 d) 2, 3 and 5
8. The quadrilaterals whose diagonals are perpendicular bisectors
a) Square, Rectangle c) Square, Kite
b) Square, Rhombus d) Square, Trapezium
9. The number of vertices of a polyhedron having 5 faces and 9 edges is
a) 4 b) 5 c) 6 d) 7
10. The number completely divisible by 3 is
a) 136 b) 523 c) 439 d) 294
11. The generalized form of xyz is
a) $10x + 100y + z$ c) $10x + y + 10z$
b) $100x + 10y + z$ d) $100x + y + 10z$
12. Hardy – Ramanujan number is
a) 1729 b) 27000 c) 827 d) 2700
13. The value of $(-4)^2$ is
a) -8 b) 16 c) 8 d) -16
14. The ratio of 50 paise to Rs.5 is
a) 1 : 10 b) 10 : 1 c) 100 : 1 d) 1 : 100

15. A graph which divides a circle into sectors is
 a) Pictograph b) Bar graph c) Pie chart d) Line graph
16. The probability of getting an odd number from 1 to 10 is
 a) $\frac{4}{10}$ b) $\frac{1}{2}$ c) $\frac{2}{3}$ d) $\frac{6}{10}$

II. Answer the following questions:-

4x1=4

17. What are the ending digits of Square numbers?
 18. In the coordinate system, where does a point whose x-coordinate is zero and y-coordinate is non-zero lie?
 19. Write the formula used to find curved surface area of a cylinder, whose radius is 'r' units and height is 'h' units.
 20. In the coordinate system the line representing $y=4$ is parallel to which axis?

III. Answer the following questions:-

6x2=12

21. Two numbers are in the ratio 5:3 if they differ by 18, what are the numbers?
 22. Find the smallest number by which 234 must be multiplied to get a perfect cube.
 23. Add $2p^2q^2 - 3pq + 4$ to $5 + 7pq - 3p^2q^2$
 24. Factorise $(a^2 + 8a + 16)$ then divide by $(a + 4)$
 25. Write the properties of a Parallelogram.
 26. A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours?

IV. Answer the following questions:-

3x3=9

27. Find the smallest perfect square number that is divisible by 5, 9 and 15.
 28. Sohan bought a second hand refrigerator for Rs. 2500, then spent Rs. 500 on its repairs and sold it for Rs. 3300. Find his loss or gain percent.
 29. Construct a rhombus BEND given that $BN = 5.6\text{cm}$, $DE = 6.5\text{cm}$.

V. Answer the following questions:-

1x4=4

30. The internal measures of a cuboidal room are 12m x 8m x 4m. Find the total cost of whitewashing all four walls of a room, if the cost of white washing is Rs. 5 per m^2

VI. Answer the following question:-

1x5=5

31. The following table shows the colours preferred by a group of people. Draw a piechart for this information.

Colours	Number of people
Blue	18
Green	9
Red	6
Yellow	3
Total	36