



SUMMATIVE ASSESSMENT – THIRD TERM

MATHEMATICS

Max. Marks: 60

Std - VII

Time: 2 Hrs

I. Choose the correct answer:

5 x 1 = 5

1. $6.4 + 59.12 + 758.741$ is equal to _____.
 a) 842.261 b) 824.261 c) 814.261 d) 834.261
2. $10 - 0.075$ is equal to _____.
 a) 9.925 b) 9.25 c) 9.025 d) 10.025
3. 1.2×0.12 is equal to _____.
 a) 0.144 b) 1.440 c) 14.40 d) 1.044
4. $4 \text{ cm} =$ _____ mm.
 a) 4 mm b) 14 mm c) 40 mm d) 400 mm
5. $a^2 + 2ab + b^2 =$ _____.
 a) $a + b$ b) $a^2 + b$ c) $(a + b)^2$ d) $(a - b)^2$

II. Fill in the blanks with suitable answers:

5 x 1 = 5

6. _____ is the middlemost position in the observation (Median / Mode)
7. The turtle is the cursor of the _____ language.
8. Always _____ is the first step in an algorithm.
9. A figure that is not symmetric is called an _____ figure.
10. $94 \times 102 =$ _____.

III. Match the following:

5 x 1 = 5

11. $\frac{1260}{420}$ - 3.26
12. $39.12 \div 12$ - 9145.3
13. 7×0.9 - 6.3
14. 914.53×10 - 2400
15. $\frac{1680 \times 100}{70}$ - 3

IV. State whether the following statements are True or False:

5 x 1 = 5

16. $\frac{1}{5}$ and 20% are equivalent fractions.
17. A ratio can also be expressed as a fraction.
18. $2 \frac{4}{21} = \frac{46}{21}$

19. The Amount refers to the sum of the principal amount and the interest. (ie) $A = P + I$
 20. If $x + y = 7$ and $x^2 + y^2 = 37$ then $xy = 6$.

V. Do as Directed: (Any 5)

$$5 \times 2 = 10$$

21. Ramy had ₹ 300.50 with her. She bought some pens for ₹ 82.00 and few pencils for ₹ 68.75. How much money is left with her?
22. Evaluate: $234.75 - (54.11 - 38.2) + 16.07$
23. Express the following percentages as fractions.
(i) $\frac{161}{4}\%$ (ii) $33\frac{1}{3}\%$
24. Find the profit percent if the cost price of an air cooler is ₹ 6000 and the selling price is ₹ 7500.
25. Draw a flow chart to find the area of the square whose perimeter is given.
26. Find the mode for the data: 13, 15, 17, 14, 17, 17, 13, 13, 15, 16 and 17.
27. Define symmetry and asymmetry. Give one example to differentiate each.
28. Evaluate the following: $(x^2 + 10x + 25)(x^2 - 10x + 25)$

VI. Answer the following: (Any 5)

$$5 \times 5 = 25$$

29. If $a - \frac{1}{a} = 6$ find the value of $a + \frac{1}{a}$.

30. (i) Write an algorithm to find the perimeter of a rectangle. (3marks)
(ii) Write the five basic symbols used in the flowchart. (2marks)

31. The sum of two numbers is 12 and the difference between their squares is 96. Find the two numbers.

32. Factorise the following:
(i) $100a^2 - 140ab + 49b^2$
(ii) $4a^2 - 12ab + 9b^2 - 16c^2$

33. A certain sum of money amounts to ₹ 7200 in 2 years and ₹ 7600 in 3 years. What would be the principal and the rate of interest?

34. Find the rate of interest if ₹ 3000 would yield ₹ 630 as simple interest in 3 years 6 months.

35. Fill in the blanks.
(i) $0.11 \times 0.111011 = \underline{\hspace{2cm}}$.
(ii) $6.14 \times 2.86 = \underline{\hspace{2cm}}$.
(iii) $7 \times \underline{\hspace{2cm}} = 0.049$
(iv) $39.112 \div 0.39112 = \underline{\hspace{2cm}}$.
(v) $437.5 \div 1.25 = \underline{\hspace{2cm}}$.

VII. Geometry:

$$1 \times 5 = 5$$

36. (a) Construct a triangle ABC where $AB = 6 \text{ cm}$ $BC = 5 \text{ cm}$ and $AC = 9 \text{ cm}$
(Or)
(b) Draw equilateral triangle EFG with $EF = 5.4 \text{ cm}$.