

## 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.  $1.2 \times 0.12$  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. $7 \times 0.9$               | - | 6.3    |
| 14. $914.53 \times 10$           | - | 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 x 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 x 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 cm BC = 5 cm and AC = 9 cm  
(Or)  
(b) Draw equilateral triangle EFG with EF = 5.4 cm.