07-T3-MATHS-TIRUPATTUR
THIRD TERM SUMMATIVE EXAM - 2023

STD - VII
TIME : 2.00 Hrs

MATHEMATICS

MARKS : 60

I. Choose the best answer   **10 x 1 = 10**

1. $7.0 - 2.83 =$ ....
   a) 3.47   b) 4.17   c) 7.34   d) 4.73

2. $2.08 \times 10 =$ ....
   a) 20.8   b) 208.0   c) 0.208   d) 280.0

3. $0.07\% =$ ....
   a) $\dfrac{7}{10}$ b) $\dfrac{7}{100}$ c) $\dfrac{7}{1000}$ d) $\dfrac{7}{10000}$

4. The Interest for a principle of ₹ 4500 which gives an amount of ₹5000 at end of certain period is ..
   a) ₹ 500   b) ₹ 200   c) 20%   d) 15%

5. The product of (x + 5) and (x - 5) is ....
   a) $(x - 5)^2$ b) $(x + 5)^2$ c) $x^2 - 25$ d) $x^2 - 10x + 25$

6. A .... is a turn about a point
   a) Translation   b) Rotation   c) Reflexion   d) Glide Reflexion

7. The common factors of the algebraic expression ax^2y, bxy^2 and $cxyz$ is
   a) x^2y b) xy^2 c) xyz d) xy

8. The mean of first fifteen even number is ....
   a) 4   b) 16   c) 5   d) 40

9. Find the mode of data 3, 6, 9, 12, 15
   a) 1   b) 2   c) 3   d) No mode

10. The mean of the data 12, x , 28 is 18. Find the value of x ....
    a) 18   b) 16   c) 14   d) 22

II. Fill in the blanks.   **5 x 1 = 5**

11. $7.63 \div 10 =$ ....

12. Decimal value of 142.5% is ....

13. Express $24 ab^2c^2$ as product of its factors is ....

14. The average of integers between -10 to 10 is ....

15. The diameter is equal to .... times the radius.

III. Say True or False   **5 x 1 = 5**

16. 1 metre = $\dfrac{1}{1000}$ kilometre

17. $(x^2 + y^2) (y^2 + x^2) = (x^2 + y^2)^2$

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18. Linear inequation has almost one solutions.

19. $ab^2 = ab \times ab$

20. The factors of $x^2 - 6x + 9$ are $(x - 3)(x - 3)$

IV. Match the following.   5 x 1 = 5

21. $(a + b)^2$ -   It shows direction of flow

22. Amount   -   0.475

23. 30%   - $a^2 + 2ab + b^2$

24. $47.5 \div 100$ -   0.3

25. $\rightarrow$ -   Principal + Interest

V. Answer the following (any 5)   5 x 2 = 10

26. Subtract 6.567 from 9.231

27. Find the value of 0.8×0.4

28. A T.Shirt bought for ₹ 110 is sold at ₹ 90. Find the loss percentage.

29. Find the simple interest on 35000 at 9% per annum for 2 years.

30. Factorise by using the identify $64x^2 - 81y^2$.

31. Define : Reflexion

32. Find the median of the following golf scores. 68, 79, 78, 65, 75, 70, 73

VI. Answer the following (any 4)   4 x 5 = 20

33. Add the following by using place value grid 25.67 + 33.856

34. 75 students from a Government High School appeared for S.S.L.C. examination. 72 of them are declared passed in the examination. Find the percentage of students passed.

35. Represent the solutions of $3x + a \le 12$ in a number line, where x is an integer.

36. If the mean of the following numbers is 38, find the value of x

    48, x, 37, 38, 36, 27, 35, 34, 38, 49, 33

37. The ages (in years) of 11 cricket players are given below. Find the mode of their ages.

    25, 36, 39, 38, 40, 36, 25, 25, 38, 26, 36

38. Construct the flow chart to find the greatest number among the given 3 natural numbers.

VII. Draw any one   1 x 5 = 5

39. Draw concentric circles with radii 3cm and 5cm and shade the circular ring. Find its width.

                          (OR)

40. Draw concentric circles with radii 4 cm and 6cm and shade the circular ring. Find its width.

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