

Tsi7M

Tenkasi District



Summative Assessment - 2024

05-04-24

Standard 7

MATHS

Time: 2.00 Hours

Marks: 60

I. Choose the correct answer:

5x1=5

- 1) $7.0 - 2.83 = ?$
 - a) 3.47
 - b) 4.17
 - c) 7.34
 - d) 4.73
- 2) $5.6 \div 0.5 = ?$
 - a) 11.4
 - b) 10.4
 - c) 0.14
 - d) 11.2
- 3) The mean of first fifteen even number is
 - a) 4
 - b) 16
 - c) 5
 - d) 10
- 4) Find the mode of data 3, 6, 9, 12, 15
 - a) 1
 - b) 2
 - c) 3
 - d) no mode
- 5) If the median of a, 2a, 4a, 6a, 9a is 8, then find the value of 'a' is
 - a) 8
 - b) 6
 - c) 2
 - d) 0


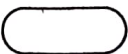



II. Fill in the blanks:

5x1=5

- 6) 3.26×100
- 7) $I =$
- 8) $(a + b)^2 =$
- 9) Width of the circular ring (w) is =
- 10) Factorise $x^2 - 4x + 4$

III. Match the following:

5x1=5

Symbols	Uses
11) 	a) Input / Output
12) 	b) $C = a + b$
13) 	c) Start / End
14) 	d) $a \geq 0$
15) 	e) It shows direction of flow

IV. True (or) False

5x1=5

- 16) $(7x + 3)(7x - 4) = 49x^2 - 7x - 12$
- 17) 2P is the factor of 8pq
- 18) When x is an integer, the solutions for $x \leq 0$ are -1, -2,
- 19) $x < -y$ can be rewritten as $-y < x$
- 20) Linear inequation has almost one solution

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V. Answer any ten of the following

10x2=20

- 21) Round the decimal number upto 1 places of decimal 910.546
- 22) Simplify : $23.5 - 27.89 + 35.4 - 17$
- 23) The price of a tablet strip containing 30 tablets is Rs.62.63. Then how will you find the price of each tablet?
- 24) The length and breadth of a rectangle is 23.5 cm and 1.5 cm respectively. Find the area of the rectangle?
- 25) A car covers 16.8 km in 0.21 hours. What is the distance covered by the car in one hour?
- 26) Simplify $(a + b)^2 - (a - b)^2$.
- 27) Convert $\frac{7}{4}$ to percent?
- 28) Factorise $9x^2 + 30xy + 25y^2$
- 29) Find the average for first 10 natural numbers?
- 30) Find the mode of the given set of numbers 5, 7, 10, 12, 4, 5, 3, 10, 3, 4, 5, 7, 9, 10, 5, 12, 16, 20, 5
- 31) Define Translation.
- 32) Represent the solution of $3x + 9 \leq 12$ in a number line, where x is an integer?

VI. Answer any five of the following

5x3=15

- 33) Everyday Malar travels 1.820 km by bus and 295 m by walk to reach the school. Find the distance of school from her house in km?
- 34) Malar bought 1.75 m of fabric from a roll of 25m. Express the fabric bought in terms of percentage?
- 35) A principal becomes Rs.10,050 at the rate of 10% in 5 years. Find the distance principal?
- 36) Find the simple interest on Rs.25,000 at 8% per annum for 3 year?
- 37) Simply by using the identity $(a + b)(a - b) = a^2 - b^2$
i) $(3x + 4)(3x - 4)$ ii) 53×47
- 38) 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
- 39) Find the median of the following data.
12, 7, 23, 14, 19, 10, 5, 26

VII. Answer any one

1x5=5

- 40) Draw a circle for the following measurement $r = 6.5$ cm.

(OR)

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