



Standard 7

MATHS

Time: 2.00 Hours

Marks: 60

I. Choose the correct answer:

5x1=5

- 1) $1.0 + 0.83 = \dots\dots\dots?$
a) 0.17 b) 0.71 c) 1.83 d) 1.38
- 2) $5.6 + 0.5 = \dots\dots\dots?$
a) 11.4 b) 10.4 c) 0.14 d) 11.2
- 3) The percentage of 4.7 is
a) 0.47% b) 4.7% c) 47% d) 470%
- 4) $(5+20)(-25-5) = \dots\dots\dots?$
a) -425 b) 375 c) -625 d) 0
- 5) The mean of first fifteen even number is $\dots\dots\dots$
a) 4 b) 16 c) 5 d) 10

II. Fill in the blank:

5x1=5

- 6) $7.63 \times 10 = \dots\dots\dots$
- 7) Simple Interest $I = \dots\dots\dots$
- 8) $(p - q)^2 = \dots\dots\dots$
- 9) Width of the circular ring (w) = $\dots\dots\dots$
- 10) Find the mode of data 3, 6, 9, 12, 15 $\dots\dots\dots$






III. True or false:

5x1=5

- 11) $(7x + 3)(7x - 4) = 49x^2 - 7x - 12$
- 12) $(a - 1)^2 = a^2 - 1$
- 13) $(x^2 + y^2)(y^2 + x^2) = (x^2 + y^2)^2$
- 14) 2P is the factor of 8pq
- 15) Linear Inequation has almost one solution.

IV. Match It:

5x1=5

- | Symbols | Uses |
|---|-------------------------------|
| 16)  | a) Input / Out put |
| 17)  | b) $C = a + b$ |
| 18)  | c) Start / End |
| 19)  | d) $a \geq 0$ |
| 20)  | e) It shows direction of flow |

V7M

2

V. Answer any six of the following:

6x2=

- 21) Find the perimeter of an equilateral triangle with a side measuring 3.8 cm.
- 22) Find the area of the rectangle whose length is 23.7cm and breadth is 15.2 cm.
- 23) Scoring rate of a batsman is 86 % write his strike rate as decimal.
- 24) Factorise $9x^2 + 30xy + 25y^2$
- 25) 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
- 26) Find the median of the following data.
12, 7, 23, 14, 19, 10, 5, 26
- 27) Solve $2x + 4 < 18$ where x is a natural number.
- 28) Define : Translation.

VI. Answer any six of the following:

6x3=18

- 29) The product of two numbers is 40.376. One number is 14.42. Find the other number.
- 30) A wheel of a body cycle covers 49.7 cm in one rotation. Find the distance covered in 10 rotations?
- 31) A principal becomes Rs.10, 050 at the rate of 10% in 5 years. Find the principal.
- 32) Find the simple interest on Rs.25,000 at 8% per annum for 3 years?
- 33) Show that $(x + 2y)^2 - (x - 2y)^2 = 8xy$.
- 34) i) The chord, which passes through the centre of a circle is called of the circle.
ii) is equal to two times the radius.
- 35) 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
- 36) Find the mean and mode of 6, 11, 13, 12, 4, 2

VII. Answer any two of the following:

2x5=10

- 37) Draw circles for the following measurement.
i) $r = 4$ cm (OR) ii) $d = 12$ cm
- 38) Draw concentric circles for the following measurements of radius. Find out the width of circular ring.
i) $r_1 = 3$ cm and $r_2 = 5$ cm
(OR)
ii) $d_1 = 6.4$ cm and $d_2 = 11.6$ cm
