Ts7M

Tenkasi District Common Examinations

Summative Assessment - 2023

19-04-2023

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Standard 7

MATHS

Time: 2.00 Hours

Marks: 60

Part - A

I. Choose the correct answer:

5x1=5

1) $2.08 \times 10 = \ldots\ldots$
   a) 20.8   b) 208.0   c) 0.208   d) 280.0

2) Which among the following rate of interest yields an interest of Rs.200 for the principle of Rs.2000 for one year $\ldots\ldots$
   a) 10%   b) 20%   c) 5%   d) 15%

3) The solutions of the inequation $3 \le P \le 6$ are (where P is a natural number)$\ldots$
   a) 4, 5 and 6   b) 3, 4 and 5   c) 4 and 5   d) 3, 4, 5 and 6

4) A $\ldots\ldots$ is a turn about a point.
   a) Translation   b) Rotation
   c) Reflection   d) Glide reflection

5) The mean of first 15 even numbers is $\ldots\ldots$
   a) 4   b) 16   c) 5   d) 10

II. Fill in the blanks:

5x1=5

6) $1.0 + 0.83 = \ldots\ldots$

7) Convert 75% into fraction $\ldots\ldots$

8) The product of $(x + 5)$ and $(x - 5)$ is $\ldots\ldots$

9) The medium of the data 12, 14, 23, 25, 34, 11, 42, 45, 32, 22, 44 is $\ldots\ldots$

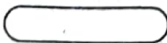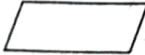10) $\ldots\ldots$ describes the operations and in what sequence the problem is to be solved.

III. Write True ? or False:

5x1=5

11) $3.2 \times 2.1 = 6.72$

12) Percentage is a fraction with denominator hundred.

13) $(a - 1)^2 = a^2 - 1$

14) The chord, which passes through the centre of the circle, is called a diameter of the circle.

15) The median of first 6 odd natural number's is 7.

IV. Match the following:

5x1=5

16) $\longrightarrow$ -   Input / output

17) ⬭   - $c = a + b$

18) ▱   -   Start / End

19) ▭   - $a > = 0$

20) ◇   -   It shows direction of flow

Part - B

V. Answer the following (Any ten):
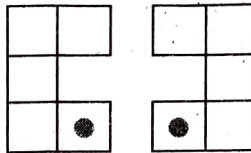
10x2=20

21) Round the following decimal numbers upto 2 places of decimal.
    i) 87.755   ii) 301.513

22) Subtract 2.85 from 4.97

23) Simplify the following

    i) $0.7 \div 100$

    ii) $49.3 \div 100$

24) Anbu scored 436 marks out of 500 in his exams. What was the percentage he scored?

25) There are 50 students in a class. If 14% are absent on a particular day, find the number of students present in the class.

26) Simplify $(2x + 5)^2$ using the identity., $(a + b)^2 = a^2 + 2ab + b^2$

27) Express $24ab^2c^2$ as the product of its factors.

28) Solve $x - 6 < 1$, where x is a natural number.

29) Define - Rotation

30) Describe the transformation involved in the following pair of figures. Write translation reflection or rotation.

31) Find the mode of the following data.

    123, 132, 145, 176, 180, 120

32) Find the median of 25, 16, 15, 10, 8, 30

33) What is scheduling?

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Part - C

VI. Answer the following (Any five):   5x3=15

34) Evaluate $3.628 + 31.73 - 2.1$

35) The Perimeter of a regular polygon is 17.5 cm. Each side measures 2.5 cm. Finid the number of sides of the polygon.

36) Kumaravel has paid simple interest on a certain sum for 2 years at 10% per annum is Rs.750. Find the sum.

37) Simplify by using the identity $(a+b) (a-b) = a^2 - b^2$

    i) $(3x + 4) (3x - 4)$ ii) 53×47

38) Solve graphically $6y - 5 \leq 2y + 7$, where y is an integer.

39) 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

40) Find the mode of the following data.

    12, 14, 12, 16, 15, 13, 14, 18, 19, 12, 14, 15, 16, 15, 16, 16, 15, 17, 13, 16, 16, 15, 15, 13, 15, 17, 15, 14, 15, 13, 15, 14

41) Construct the flow chart to explain the process of finding the greatest number among the given 3 natural numbers and write step by step process.

Part - D

VII. Practical Geometry (Any one):   1x5=5

42) Construct a cricle of diameter (d) = 12 cm with centre 'O'.

(OR)

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

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