

**T** COMMON THIRD TERM SUMMATIVE EXAMINATION - 2025

STANDARD - VI

Reg. No. 

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MATHEMATICS

Marks : 60

Time : 2.00 hrs

## PART - I

10×1=10

## I. Choose the correct answer:

- 1) If  $\frac{6}{7} = \frac{A}{49}$ , then the value of A is  
a) 42                      b) 36                      c) 25                      d) 48
- 2)  $\frac{2}{3} \times 6 =$  \_\_\_\_\_  
a)  $\frac{12}{18}$                       b)  $\frac{2}{3}$                       c)  $\frac{12}{9}$                       d) 4
- 3) The opposite of 20 units to the left of 0 is  
a) 20                      b) 0                      c) -20                      d) 40
- 4) There are \_\_\_\_\_ positive integers from -5 to 6.  
a) 5                      b) 6                      c) 7                      d) 11
- 5)  $5 \text{ cm}^2 =$  \_\_\_\_\_  $\text{mm}^2$   
a) 25                      b) 50                      c) 2500                      d) 250
- 6) If every side of a rectangle is doubled, then its area becomes \_\_\_\_\_ times.  
a) 2                      b) 3                      c) 4                      d) 6
- 7) Which of the following letter does not have a line of symmetry?  
a) A                      b) P                      c) T                      d) U
- 8) A rhombus has \_\_\_\_\_ lines of symmetry.  
a) 2                      b) 4                      c) 0                      d) 1
- 9) The 10<sup>th</sup> term of the Fibonacci sequence  
a) 34                      b) 55                      c) 89                      d) 1
- 10) The 25<sup>th</sup> letter in the pattern ABCAABBCCAAABBBCCC..... is  
a) B                      b) C                      c) D                      d) A

## II. Fill in the blanks:

5×1=5

- 11) The number which has its own reciprocal is \_\_\_\_\_.
- 12) -46 is to the \_\_\_\_\_ side of -35 on the number line.
- 13) 1 hectare = \_\_\_\_\_  $\text{m}^2$ .
- 14) \_\_\_\_\_ symmetry occurs when an object slides to new position.
- 15) The next term in the sequence 15, 17, 20, 22, 25, ..... is \_\_\_\_\_.

## III. Say True or False:

5×1=5

- 16) The reciprocal of an improper fraction is always a proper fraction.
- 17) All negative integers are greater than zero.
- 18) If a small rectangle piece is cut from one of the corners of a rectangle, then its perimeter reduces.
- 19) Order of rotation of a circle is infinite.
- 20) The first composite number is 4.

## PART - II

## IV. Answer any ten questions:

10×2=20

- 21) Add  $\frac{2}{3}$  and  $\frac{3}{5}$ .
- 22) Convert  $5\frac{3}{7}$  into an improper fraction.
- 23) Multiply  $\frac{3}{8} \times \frac{4}{5}$
- 24) Represent the following situations as integers:  
(i) 1990 BC                      (ii) A deposit of ₹ 15,847
- 25) On the number line, which number is 4 units in the right of -7?
- 26) Write all the integers between -5 and 4.
- 27) The side of a square is 5 cm. Find its perimeter.
- 28) Find the perimeter of an isosceles triangle with equal sides 10 cm each and third side is 7 cm.
- 29) A square of side 2 cm is joined with a rectangle of length 15 cm and breadth 10 cm. Find the perimeter of the combined shape.
- 30) A closed shape has 20 equal sides and one of its sides is 3 cm. Find its perimeter.
- 31) Write the name of the triangle  
i) A triangle which has no line of symmetry.  
ii) A triangle which has three lines of symmetry.
- 32) Write the prime numbers between 25 and 40.
- 33) Write Lucas sequence. Find its 11<sup>th</sup> term.

## PART - III

## V. Answer any five questions:

5×4=20

- 34) Arrange the fractions in descending order:  $\frac{9}{20}$ ,  $\frac{3}{4}$ ,  $\frac{7}{12}$
- 35) A man wants to fill  $3\frac{3}{4}$  kg of rice equally in 3 bags. How much rice does each bag contain?
- 36) Arrange in ascending order: -28, 6, -5, -40, 8, 0, 12, -1, 4, 22
- 37) Find the predecessor and successor of (i) 0 and (ii) -8 on a number line.
- 38) A field is in the shape of a right angled triangle whose base is 25m and height 20m. Find the cost of levelling the field at the rate of ₹ 45 per sq.m.
- 39) A piece of wire is 36 cm long. What will be the length of each side if we form.  
(i) a square    (ii) an equilateral triangle
- 40) Find HCF of 36 and 12 by Euclid's game.
- 41) Find the length of the rectangular black board whose perimeter is 6m and the breadth is 1m.