

Standard 6  
MATHS

Time: 2.00 Hours

Marks: 60

## I. Choose the best answer

5×1=5

- 1) If  $\frac{6}{7} = \frac{A}{49}$ , then the value of A is  
a) 42                      b) 36                      c) 25                      d) 48
- 2) The number which determines marking the position of any number to its opposite on a number line is  
a) -1                      b) 0                      c) 1                      d) 10
- 3) If every side of a rectangle is doubled, then its area becomes ..... times.  
a) 2                      b) 3                      c) 4                      d) 6
- 4) The order of rotational symmetry of 818 is .....  
a) 1                      b) 2                      c) 3                      d) 4
- 5) The 11<sup>th</sup> term in the Lucas sequence 1, 3, 4, 7 ..... is  
a) 199                      b) 76                      c) 123                      d) 47

## II. Fill in the blanks

5×1=5

- 6) The number which has its own reciprocal is .....
- 7) ..... is an integer which is neither positive nor negative
- 8)  $8 \text{ km}^2 = \dots\dots\dots \text{ m}^2$
- 9) The order of rotational symmetry of the letter 'z' is .....
- 10) A rhombus has ..... lines of symmetry

## III. Say True / False

5×1=5

- 11) The mixed fraction of  $\frac{13}{4}$  is  $3\frac{1}{4}$
- 12) -1 is to the right of 0
- 13) Order of rotation of a circle is infinite
- 14) Parallelogram has one line of symmetry
- 15) All whole numbers are integers



## IV. Match it

5×1=5

- 16) Perimeter of a rectangle -  $a \times a$  sq.units
- 17) Perimeter of a square -  $l \times b$  sq. units
- 18) Area of a rectangle -  $2(l + b)$  units
- 19) Area of a square -  $\frac{1}{2}(b \times h)$  sq.units
- 20) Area of a triangle -  $4 \times a$  units

## V. Answer any six questions.

6×2=12

- 21) Add :  $3\frac{2}{4} + 7\frac{2}{5}$
- 22) Divide :  $\frac{4}{3} \div \frac{5}{9}$
- 23) Mark the numbers 4, -3, 6 and -1 on the number line.
- 24) Find the side of a square shaped postal stamp of perimeter 8 cm.
- 25) Find the perimeter of a right angled triangle whose sides are 6 feet, 8 feet and 10 feet
- 26) Draw the lines of symmetry for the given figures and also find the number of lines of symmetry.  
i)                       ii) 
- 27) Assign the number for English alphabets as 1 for A, 2 for B upto 26 for z.  
Find the meaning of 

7	15	15	4
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- 28) Find the HCF of the following pair of numbers by Euclid's game. 25 and 35

**VI. Answer any six questions.**

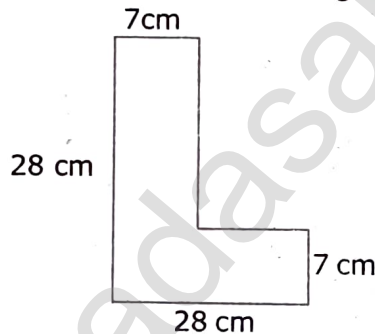
**6×3=18**

- 29) Gowri purchased  $3\frac{1}{2}$  kg of tomatoes  $\frac{3}{4}$  kg of brinjal and  $1\frac{1}{4}$  kg of Onion.  
What is the total weight of the vegetables she bought?
- 30) A rod of length 6 m is cut into small rods of length  $1\frac{1}{2}$  m each. How many small rods can be cut?
- 31) Arrange the following integers in ascending order and descending order. -11, 12, -13, 14, -15, 16, -17, 18, -19, -20.
- 32) Mark the following numbers on a number line
  - i) All integers which are greater than -7 but less than 7
  - ii) The opposites of 3
  - iii) 5 units to the left of -1
- 33) Find the cost of fencing a square plot of side 12m at the rate of Rs.15 per metre.
- 34) Find the perimeter and area of the rectangle whose length is 6m and breadth is 4m.
- 35) Draw the following shapes and find the number of lines of symmetry.
  - i) square
  - ii) rectangle
  - iii) circle
- 36) Find the next three numbers in the following number patterns
  - i) 50, 51, 53, 56, 60, ....., ....., .....
  - ii) 10, 20, 40, 80, ....., ....., .....

**VII. Answer any two questions.**

**2×5=10**

- 37) Find the perimeter and the area of the following 'L' shaped figure.



- 38) Find the alphabets in the box which have
  - i) No line of symmetry
  - ii) Rotational symmetry
  - iii) Reflection symmetry

A	M	P	E
D	I	K	O
N	X	S	H
U	V	W	Z

- 39) Observe the calendar showing the month of January 2019

January - 2019						
Su	M	T	W	Th	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Answer the following questions

- i) Sort out the prime and Compo site numbers from the calendar.
- ii) Sort out the odd and even numbers
- iii) Sort out the dates which fall on Monday.

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