

V

## COMMON SECOND MID - TERM TEST - NOV. 2019

## STANDARD - VII

Reg.No. 


 7810

Time : 2.00 hrs

## MATHS

Marks: 60

## I. Choose the best answer:

5×1=5

1.  $\frac{3}{5} = \underline{\hspace{2cm}}$

i) 0.06

ii) 0.006

iii) 6

iv) 0.6

2.  $78.56 \square 78.57$

i) &lt;

ii) &gt;

iii) =

iv) ≠

3. Between which two whole numbers 1.7 lie?

i) 2 and 3

ii) 3 and 4

iii) 1 and 2

iv) 1 and 7

4. The formula to find the width of the circular path is

i)  $(L - \ell)$  unitsii)  $(B - b)$  unitsiii)  $(R - r)$  unitsiv)  $(r - R)$  units

5. The angles of a triangle are in the ratio 2 : 3 : 4 then the angles are

i) 20, 30, 40

ii) 40, 60, 80

iii) 80, 20, 80

iv) 10, 15, 20

## II. Fill in the blanks:

5×1=5

6. The decimal representation of 30kg and 43 g is \_\_\_\_\_ kg.

7. To compare two decimal numbers, we compare the digits \_\_\_\_\_.

8. Formula used to find the circumference of a circle is \_\_\_\_\_.

9. The ratio of the area of a circle to the area of its semicircle is \_\_\_\_\_.

10. Each angle of an equilateral triangle is of \_\_\_\_\_ measure.

## III. Say True or False :

5×1=5

11. The place value of 3 in 85.073 is hundredths.

12.  $123.5 \square 12.35$ 13. In the formula,  $C = 2\pi r$ , 'r' refers to radius.

14. Circumference of a circle is always three times of its diameter.

15. Every triangle has at least two acute angles.

## IV. Match :

5×1=5

16.  $\frac{4}{100}$

180°

17. Decimal Number in between 4 and 5

 $2\pi r$ 

18. Circumference of circle

0.04

19. Area of the circular path

4.6

20. Sum of the 3 angles of a triangle

 $\pi(R^2 - r^2)$ 

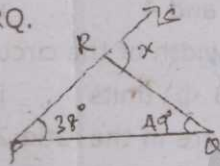
## V. Answer any 10:

10×2=20

21. Express the following in cm using decimals : i) 9 mm

22. Express the following decimal numbers in place value grid : i) 9.657      i i )

- 237 Write the following as decimal numbers : i)  $3 + \frac{8}{10} + \frac{4}{100} + \frac{5}{1000}$
- 247 Arrange the following in ascending order : 123.45, 123.54, 125.43, 125.34, 125.3
- 257 Convert the fraction into decimal number :  $3\frac{3}{5}$
26. Represent the following decimal number on the number line : 2.1
27. The diameter of a circular well is 4.2m. What is its circumference?
- 287 Find the area of the circle of radius 21cm ( $\pi = 3.14$ )
29. A floor is 10m long and 8m wide. A carpet of size 7m long and 5m wide is laid on the floor. Find the area of the floor that is not covered by the carpet.
- 307 In  $\triangle PQR$ , find the exterior angle,  $\angle SRQ$ .



31. In  $\triangle STU$  if  $SU = UT$ ,  $\angle SUT = 70^\circ$ ,  $\angle STU = x$  find the value of  $x$ .

**VI. Answer the following (any 5):**

**5x3=15**

32. Express the following in metres using decimal. 2m 54cm.
- 337 Write the following fractions as decimals : i)  $\frac{9}{1000}$  ii)  $\frac{1}{50}$
- 347 A wire of length 1320 cm is made into circular frames of radius 7cm each. How many frames can be made?
- 357 In a grass land, a sheep is tethered by a rope of length 4.9m. Find the maximum area that the sheep can graze.
36. A rectangular garden has dimensions 11m  $\times$  8m. A path of 2m wide has to be constructed along its sides. Find the area of the path.
- 377 If the 3 angles of a triangle are in the ratio 3 : 5 : 4 then find them.

**VII. Answer any one of the following:**

**1x5=5**

38. In a right angled triangle MNO,  $\angle N = 90^\circ$ , MO is extended to P. If  $\angle NOP = 128^\circ$ , find the other two angles of  $\triangle MNO$ .
- 397 Find the value of  $x$ .

