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# COMMON SECOND MID - TERM TEST - 2022

Standard - VII

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Rea No	7	0	1	0	
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	Marks 6				

Time: 2.00 hrs.

MATHEMATICS

#### I. Choose the best answer:

5×1=5

- The place value of 3 in 85.073 is \_\_\_\_
- i) tenths ii) hudredths iii) thousands
- (v) thousandths

- 11) 0.006
- 111) 6

- (v) 0.6
- 3. The formula used to find the area of the circle is \_\_\_\_\_ sq.units.
  - 1) 4712
- $10^{\circ} \pi r^2$   $111) 2\pi r^2$
- $(v) \pi r^2 + 2r$
- 4. Formula used to find the circumference of a circle
- i)  $2\pi r$  units ii)  $\pi r^2 + 2r$  units iii)  $\pi r^2$  sq.units iv)  $\pi r^3$  cu.units

- 5. a x a x a x a x a is equal to
  - 1) a5
- II) 5ª
- III) 5a
- IV) a + 5

#### II. Say True or False :

5×1=5

6. 
$$0.3 = \frac{3}{10}$$

- 7. Circumference of a circle is always three times of its diameter.
- 8. 7a2b and -7ab2 are like terms
- 9.  $2^3 \times 3^2 = 6^5$
- 10. 23 < 32

# III. Match the following:

5×1=5

- 11. Circumference of circle
- πr² units β

12. 4.003

14. am x an

13. Area of circle

 $2\pi r \text{ units} \checkmark$   $4 + \frac{3}{100} \nearrow$ 

15. am

am+n 4

## IV. Answer any ten of the following:

10×2=20

- 16. Expand the following number: 37.3
- 17. Convert the 3.46 into simplest fraction.
- 18. Compare the following decimal numbers and find out the smaller number 2.08, 2.086

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VII - MATHS

19. Find the greater decimal number in the following: 5.6, 6.5

20. Calculate the circumference of the bangle shown in figure (Take  $\pi$ = 3.14)

21. Find the area of circle of radius 21cm.

- 22. The formula to find the area of the circular path is \_\_\_\_\_
- 23. Express 6 × 6 × 6 × 6 in exponential form.
- 24. Simplify by using laws of exponents :  $18^8 \div 18^4$
- 25. Simplify by using laws of exponents:  $7^6 \times 3^6$
- 26. Identify the like terms:  $12x^3y^2z$ ,  $-y^3x^2z$ ,  $4z^3y^2x$ ,  $6x^3z^2y$ ,  $-5y^3x^2z$
- 27. Find the degree of the following expression: x5
- 28. Add and find the degree of the following expressions: (9x + 3y) and (10x 9y)
- 29. The height of a person is 165cm. Express this height in metre.
- Express the following decimal numbers in place value grid and write the place value ofthe underlined digit.53.61

### V. Answer any five of the following:

5×5=25

- 31. Expand the following decimal numbers: i) 658.37
- II) 5678. 358
- 32. Express the following fractions as decimal numbers.
  - 1) 3/5

- $ii) \frac{5}{100}$
- Arrange the following in ascending order and descending order:
  2.35, 2.53, 5.32, 3.52, 3.25
- 34. If the circumference of the circle is 132m, Then calculate the radius and diameter (Take  $\pi = \frac{22}{7}$ )
- 35. The floor of the circular swimming Pool whose radius is 7m has to be cemented at the rate of Rs. 10 per m<sup>2</sup>. Find the total cost of cementing the floor.
- Find the area of a circular pathway whose outer radius is 32cm and inner radius is 18cm.
- 37. Simplify using produces Rule of exponents: i)  $5^7 \times 5^3$  II)  $3^3 \times 3^2 \times 3^4$
- 38. Express 144 using exponential form.