

# SSLC PREPARATORY EXAMINATIONS-2023

OFFICE OF THE BLOCK EDUCATION OFFICER, MYSURU NORTH, MYSURU

Subject: MATHEMATICS-Medium: English

Time: 3hrs 15min

Subject code:81E

Max.Marks:80

No. of Questions :38

I. Choose the correct answers from the 4 alternates given for each of the given problems. **8 × 1 = 8**

1. In an AP 8, 5, 2, ... .., the common difference is

- A) -3                                      B) -2                                      C) 3                                      D) 8

2. In the following numbers the irrational number is

- A)  $\sqrt{16} - \sqrt{9}$                               B)  $\frac{2}{4}$                                       C) 0.33333 ...                              D)  $2 + \sqrt{3}$

3. If the pair of the pair of linear equations  $x + 2y = 3$  and  $2x + 4y = k$  are coincide then the value of k is

- A) 3                                      B) 6                                      C) -3                                      D) -6

4. In the given graph, the number of zeros of the polynomial  $y = p(x)$  is

- A) 3                                      B) 5                                      C) 4                                      D) 2



5. The distance between the point (4, -3) and the origin is

- A) 7 units                                      B) 25 units                                      C) 5 units                                      D) 6 units

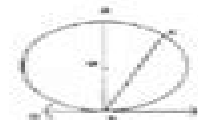
6. In the given fig.  $ST \parallel QR$  then  $\frac{PS}{SQ}$  is equal to

- A)  $\frac{PT}{TR}$                                       B)  $\frac{PS}{SR}$                                       C)  $\frac{PT}{SQ}$                                       D)  $\frac{PT}{SR}$



7. In the given figure BC is

- A) Radius                                      B) Chord                                      C) Diameter                                      D) Secant



8. The formula to find the volume of a Sphere of radius  $r$  units is

- A)  $\frac{2}{3}\pi r^2$  cubic units                                      B)  $\frac{2}{3}\pi r^3$  cubic units  
 C)  $\frac{4}{3}\pi r^2$  cubic units                                      D)  $\frac{4}{3}\pi r^3$  cubic units

II. Answer the following **8 × 1 = 8**

9. The LCM of 24 and 36 is 48 and hence find their HCF.

10. In two linear equations  $a_1x + b_1y + c_1 = 0$  and  $a_2x + b_2y + c_2 = 0$ , if  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ , then write the number of solutions these pair of equations have.

11. Write the discriminant of the quadratic equation  $ax^2 + bx + c = 0$ .

12. If  $p(x) = 2x^2 + 3x^2 - 11x + 6$ , then find the value of  $p(1)$ .

# Maths Prep 2

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