SHREE ACADEMY



SUB- algebra CLASS= X MARK-25 TIME-1HR

**Q.1).A) MCQs**

1) Which of the following is linear equation in two variables?

A) 𝑥/3 + 5/𝑦 = 6 B) 2x2-3y=8-3y C) x+2y=5-3y D) 3 x²+y

2) The solution of the equation 2x – y = 2 is ------.

A) (2,2) B) (5,2) C) (2,5) D) (5,5)

3) Degree of quadratic equation is always ---------------.

A) 1 B) 2 C) 3 D) 4

**B) One Mark Each**

1) If x+2y=5 and 2x+y=7 then find the value of x+y

2) If Dx = 24 and x = - 3 then find the value of D.

3) Write the given quadratic equation in standard form. m (m – 6) = 9.

**Q.2) Solve the following questions (any 3)**

1) Solve the following quadratic equation by factorization method. 3x2 + 8x+ 5= 0

2) Roots of a quadratic equation are 5 and -4 then form the quadratic equation.

3) Decide whether x = 2 and y =−1 is the solution of the equation 2x + y = 3 or not?

**Q3. Solve following problem (any 3)**

1) Solve by Cramer’s rule, 3x – 4y = 10; 4x + 3y = 5

2) For the equation 3𝑥 − 2𝑦 = 17 find the value of x when y = −1 and find the value of y when x = 3.

3) Solve the quadratic equations by formula method. 5m2 – 4m -2 = 0

4) Solve the following quadratic equation. √3x 2 + √2x – 2√3 =0

**Q4. Solve following word problems (any one)**

1) The sum of father’s age and twice the age of his son is 70. If we double the age of the father and add it to the age of his son the sum is 95. Find their present ages.

2) If 460 is divided by a natural number, quotient is 6 more than five times the divisor and remainder is 1. Find quotient and diviser.

\*\*\*\*\*\*\*\*\*\***ALL THE BEST**\*\*\*\*\*\*\*\*\*