TOPIC –Simultaneous Linear Equation

Subject : Mathematics   **Class-9**   **F. M. 15**

WORKSHEET NO. - 4   **First term**   **Date: 25.01.2021**

Q.1) **Choose the correct option:**   **(1x15=15)**

i)   The value of r for which the equations x - ry = r and x + (r - 2)y = 2 will have no solution is
  a) 1   b) 2   c) 3/4   d) 4/3

ii)   The solutions of the equations, x - 8y - 1 and (4 + k)y - x + 1 = 0 is possible if the value of k is not
  a) - 2   b)2   c) 4   d) - 4

iii) If the equations 3x + 5y = 6 and 6x + 10y = m have infinite number of solutions then the value of m is
    a)   -4   b) 12   c) 5   d) - 12

iii) The value of t for which the solution of the equation x = $\frac{3}{t+2}$ is not possible is
    a)   - 4   b) 2   c) - 2   d) 1

v)   If the equations x - 2y = 3 and 3x + ky = 1 have unique solution then the value of k is
    a)   1   b)0   c)6   d)- 6

vi) If the straight line ax + 5y = 8 and 3x + by = 7 are parallel, then the relation between a and b is
    a) a + b = 15   b) a - b = 1   c)ab = 15   d)a + b = 8

vii) If the equations x + 3y + 5 = 0 and 2x + ky + 10 = 0 have infinite number of solutions then the value of k is
    a)6   b) ½   c) 2   d)1/6

viii) If the equations x - 3y = 5 and 2x - ky = 1 have unique solution, then
a)k = 6   b)k ≠ 6   c) k = 3   d)k ≠ 3

ix)The two equations 4x + 3y = 7, and 7x - 3y = 4 have
    a) none of them   b)infinite no of solutions   c) no solution   d) only one solution

x) The two equations 3x + 6y = 15, and 6x + 12y = 30 have
    a) only one solution   b) infinite no of solutions   c) no solution   d) none of them

xi) The two equations 4x + 4y = 20, and 5x +5y = 30 have
    a) only one solution   b) infinite no of solutions   c) no solution   d) none of them

xii)Which of the following equations have a solution (1, 1)
    a) 2x + 3y = 9   b) 6x + 2y = 9   c) 3x + 2y = 5 d)4x + 6y = 8

xiii) The two equations 4x + 3y = 25 and 5x - 2y = 14 have the solution
a) x = 4, y = 3   b)x = 3, y = 4   c) x = 3, y = 3   d)x = 4, y = -3

  xiv) The solution of the equation x + y = 7 are
      a)   (1,6),(3, -4)   b)(1,-6),(4,3)   c) (- 1,6),(- 4,3)d)(1,6),(4,3)

xv)If (x - 3)^2 + (y - 1/3)^2 = 0, then the value of x/y is
a) 3   b) 9   c)1/3   d) 1

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