

## CHAPTER-3 | Pair of Linear Equations in Two Variables

### QUIZ PART-03

1. Half the perimeter of a rectangular garden is 36m. Its dimensions are:
- 10m by 20m
  - 8m by 16m
  - 12m by 24m
  - 6m by 12m

(B)

**Explanation :** Solving gives dimensions 8m by 16m.

2. The equations  $2x+3y-8=0$  and  $x-y+1=0$  are:
- Parallel
  - Intersecting
  - Coincident
  - None of these

(B)

**Explanation :** The lines intersect at one point.

3. The system of equations  $x+y=5$  and  $2x+2y=8$  are:
- Parallel
  - Coincident
  - Inconsistent
  - None of these

(A)

**Explanation :** The lines are parallel and do not intersect.

4. The graph of the linear equation  $2x+3y=6$  intersects the x-axis at:
- (3, 0)
  - (0, 3)
  - (0, -3)
  - (-3, 0)

(A)

**Explanation :** Set  $y=0$  to find the x-intercept.

5. The system of equations  $3x+2y=6$  and  $x+y=3$  is:
- Consistent
  - Inconsistent
  - Coincident
  - None of these

(A)

**Explanation :** The system has one solution.

6. The equation  $x+2y=4$  represents a line with slope:
- 1
  - 1
  - 2
  - 2

(B)

**Explanation :** The slope is -1 as the equation is in the form  $y=mx+b$ .

7. The system  $x+y=5$  and  $x-y=1$  has:
- Infinite solutions
  - One solution
  - No solution
  - Dependent equations

(B)

**Explanation :** The system has a unique solution.

8. The lines represented by  $3x+2y=6$  and  $6x+4y=12$  are:
- Parallel
  - Coincident
  - Intersecting
  - None of these

(B)

**Explanation :** These are coincident lines, representing the same line.

9. The equation  $y=2x+3$  represents a line with:
- Slope 3
  - Slope 2
  - Slope 0
  - Slope -2

(B)

**Explanation :** The slope of the line is 2.

10. The system  $x+y=5$  and  $2x+2y=10$  is:
- Parallel
  - Coincident
  - Inconsistent
  - None of these

(B)

**Explanation :** The second equation is a multiple of the first, so the lines are coincident.