PAIR OF LINEAR EQUATIONS IN TWO VARIABLES
ASSIGNMENT – 3(B)
OBJECTIVE- Multiple Choice Questions

1. What will be the solution of these equations ax+by=a-b, bx-ay=a+b
   (a) x=1, y=2 (b) x=2,y=-1 (c) x=-2, y=-2 (d) x=1, y=-1

2. If x=a, y=b is the solution of the pair of equation x-y=2 and x+y=4 then what will be value of a and b
   (a) 2,1 (b) 3,1 (c) 4,6 (d) 1,2

3. If a pair of linear equations is consistent, then the lines will be
   (a) parallel (b) always coincident (c) always intersecting (d) intersecting /coincident

4. The pair of equations, y=0 and y = -7 has
   (a) one solution (b) 2 solutions (c) no solutions (d) infinite solutions

5. For the equation cx – y = 2 and 6x – 2y = 3 to have infinite solutions, the value of c =
   (a) 3 (b) - 3 (c) -12 (d) no value

6. The sum of the digits of a two digit number is 9. If 27 is added to it the digits are reversed. The number is
   (a) 27 (b) 36 (c) 45 (d) 54

7. For the equation x – 2y = 3 and 3x + ky = 1 to have unique solution,
   (a) k = - 6 (b) $k \neq -6$ (c) k = 0 (d) no value

8. If the lines given by 3x +2ky = 2 and 2x + 5y + 1 = 0 are parallel, then k =
   (a) - 5/4 (b) 2/5 (c) 15/4 (d) 3/4

9. A pair of linear equations which have a unique solution given by x = 2 and y = - 3 is given by
   (a) x+ y = -1, 2x – 3y = - 5 (b) 2x + 5y = - 11, 4x + 10y = - 22 (c) 2x – y = 1, 3x + 2y = 0 (d) x – 4y – 14 = 0, 5x – y – 13 = 0

10. The pair of equations x = a and y = b graphically represents lines which are
    (a) parallel (b) intersecting at (b, a)
    (c) coincident (d) intersecting at (a, b)

11. For what value of k, do the equations 3x – y + 8 = 0 and 6x – ky = –16 represent coincident lines?

(a) $\frac{1}{2}$ (b) $-\frac{1}{2}$ (c) 2 (d) –2

12. One equation of a pair of dependent linear equations is –5x + 7y = 2. The second equation can be

(a) 10x + 14y + 4 = 0 (b) –10x – 14y + 4 = 0

(c) –10x + 14y + 4 = 0 (d) 10x – 14y = –4

13. Raju buys 7 books and 6 pens for ₹2750 and Anand buys 3 books and 5 pens of same kind for ₹1300. What are the respective costs of a book and a pen? **[NSTSE 2019]**

(a) 350, 50 (b)500, 75 (c) 250, 100 (d) 500, 50

14. A and B can together do a piece of work in 30 days. A worked for 16 days, B finishes the remaining work alone in 44 days. In how many days shall B finish the whole work alone?

(a) 30days (b) 40 days (c) 60 days (d) 70 day **[ACER 2019]**

Answer

1. d	2. b	3. d	4. c	5. d	6. b	7. b
8. c	9. d	10. d	11. c	12. d	13. a	14. c