

## CHAPTER-4 | QUADRATIC EQUATIONS

QUIZ  
PART-04

1. The roots of  $x^2-3x-10=0$  are found by:

- A. Factorization
- B. Completing the square
- C. Quadratic formula
- D. Graphical method (A)

*Explanation:* Factoring gives roots 5 and -2.

2. The equation  $2x^2+x-6=0$  is solved by:

- A. Factorization
- B. Completing the square
- C. Quadratic formula
- D. None (A)

*Explanation:* Factoring gives the solution.

3. The sum of the squares of two consecutive integers is 365. The integers are:

- A. 13 and 14
- B. 12 and 15
- C. 14 and 13
- D. 10 and 17 (A)

*Explanation:* The integers are 13 and 14.

4. The total cost of producing pottery is ₹90. The number of articles is:

- A. 5
- B. 6
- C. 7
- D. 8 (B)

*Explanation:* Solving gives 5 articles.

5. The equation  $x^2+7x+5=0$  is solved by:

- A. Factorization
- B. Quadratic formula
- C. Completing the square
- D. Graphical method (B)

*Explanation:* Quadratic formula gives the roots.

6. The equation  $55-n=750$  gives the number of toys as:

- A. 15
- B. 14
- C. 16
- D. 12 (B)

*Explanation:* Solving gives 14 toys.

7. The roots of  $(x+2)(x-1)=0$  are:

- A. 1 and -2
- B. -1 and 2
- C. 2 and -1
- D. -2 and 1 (A)

*Explanation:* The roots are 1 and -2.

8. The equation  $x^2+5x-14=0$  is solved by:

- A. Factorization
- B. Completing the square
- C. Quadratic formula
- D. Graphical method (C)

*Explanation:* Using the quadratic formula.

9. The equation  $3x^2+2x-1=0$  is a:

- A. Linear equation
- B. Quadratic equation
- C. Cubic equation
- D. None (B)

*Explanation:* It's a quadratic equation.

10. The solution to  $x+2y=5$  and  $x-y=2$  is:

- A.  $x=3, y=2$
- B.  $x=2, y=1$
- C.  $x=1, y=2$
- D.  $x=3, y=1$  (A)

*Explanation:* The solution is  $x=3, y=2$ .