Quadratic Equation Questions Overview

Quadratic Equation Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Quadratic Equation Questions.

Quadratic Equation Questions

Two equations numbered I and II are given. Solve both the equations and mark the appropriate answer.

Question

I: x2 – x – 42 = 0 II: y2 + y – 30 = 0

Difficulty : Moderate   **Average Time : 34 Seconds**

Options :

1. x > y

2. x y

3. x y

4. x = y or Relationship between x and y cannot be determined

5. x y

Solution

The correct answer is **Option 4** i.e**. x = y or the relationship between x and y cannot be determined.**

I: $x^2 - x - 42 = 0$

$x^2 - 7x + 6x - 42 = 0$

$x(x - 7) + 6(x - 7) = 0$

$(x - 7)(x + 6) = 0$

x = -6 and 7

II: $y^2 + y - 30 = 0$

$y^2 + 6y - 5y - 30 = 0$

$y(y + 6) - 5(y + 6) = 0$

$(y + 6)(y - 5) = 0$

$y = -6$ and 5

Hence, the relationship between 'x' and 'y' cannot be determined