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Number Series Questions for LIC Asst. Pre.

Quiz 5

Directions: In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

1. **I.** $x^2 = 49$

II. $y^2 = 16$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

2. **I.** $x^2 - 13x + 40 = 0$
II. $y^2 - 16y + 63 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

3. **I.** $x^2 + 4x + 3 = 0$
II. $5y^2 + 8y + 3 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

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4. **I.** $2x^2 - x - 231 = 0$
II. $2y^2 + 43y + 231 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

5. **I.** $55x^2 - 495x + 1100 = 0$
II. $5y^2 + 10y - 120 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

6. **I.** $2x^2 + 7x + 5 = 0$
II. $3y^2 + 5y + 2 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

7. **I.** $2x^2 - 13x + 21 = 0$
II. $3y^2 - 14y + 15 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

8. **I.** $2x^2 - 13x + 18 = 0$
II. $y^2 - 7y + 12 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

9. **I.** $x^2 + 6x + 9 = 0$
II. $y^2 - y - 20 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

10. **I.** $3x^2 - 10x + 8 = 0$
II. $2y^2 - 19y + 35 = 0$

A. if x > y B. if x ≤ y C. if x ≥ y D. if x < y
E. if x = y or relationship between x and y can't be established

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Correct Answers:

1	2	3	4	5	6	7	8	9	10
E	E	B	C	C	B	C	E	E	**D**

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Explanations:

1. **I.** $x^2 = 49$
$\therefore x = \pm 7$

II. $y^2 = 16$
$\therefore y = \pm 4$

Hence, no relationship can be established.

Hence, option E is correct.

2. **I.** $x^2 - 13x + 40 = 0$
$x^2 - 8x - 5x + 40 = 0$
$x(x - 8) - 5(x - 8) = 0$
$(x - 8)(x - 5) = 0$
$x = 8, 5$

II. $y^2 - 16y + 63 = 0$
$y^2 - 9y - 7y + 63 = 0$
$y(y - 9) - 7(y - 9) = 0$
$(y - 9)(y - 7) = 0$
$y = 9, 7$

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Hence, no relationship can be established.

Hence, option E is correct.

3. **I.** $x^2 + 4x + 3 = 0$
$x^2 + 3x + 1x + 3 = 0$
$x(x + 3) + 1(x + 3) = 0$
$(x + 3)(x + 1) = 0$
$x = -3, -1$

II. $5y^2 + 8y + 3 = 0$
$5y^2 + 5y + 3y + 3 = 0$
$5y(y + 1) + 3(y + 1) = 0$
$(5y + 3)(y + 1) = 0$
$y = -0.6, -1,$

Hence, $x \leq y$

Hence, option B is correct.

4. **I.** $2x^2 - x - 231 = 0$
$2x^2 - 22x + 21x - 231 = 0$
$2x(x - 11) + 21(x - 11) = 0$
$(2x + 21)(x - 11) = 0$
$x = -10.5, 11$

II. $2y^2 + 43y + 231 = 0$
$2y^2 + 22y + 21y + 231 = 0$
$2y(y + 11) + 21(y + 11) = 0$
$(2y + 21)(y + 11) = 0$
$y = -10.5, -11,$

Hence, $x \geq y$
Hence, option C is correct.

5. **I.** $55x^2 - 495x + 1100 = 0$
$x^2 - 9x + 20 = 0$
$x^2 - 5x - 4x + 20 = 0$
$x(x - 5) - 4(x - 5) = 0$
$(x - 4)(x - 5) = 0$
$x = 5, 4$

II. $5y^2 + 10y - 120 = 0$
$y^2 + 2y - 24 = 0$
$y^2 + 6y - 4y - 24 = 0$
$y(y + 6) - 4(y + 6) = 0$
$(y + 6)(y - 4) = 0$
$y = -6, 4$

Hence, $x \geq y$
Hence, option C is correct.

6. **I.** $2x^2 + 7x + 5 = 0$
$\Rightarrow 2x^2 + 2x + 5x + 5 = 0$
$\Rightarrow 2x(x + 1) + 5(x + 1) = 0$
$\Rightarrow (2x + 5)(x + 1) = 0$
$x = -2.5, -1$

II. $3y^2 + 5y + 2 = 0$
$\Rightarrow 3y^2 + 3y + 2y + 2 = 0$
$\Rightarrow 3y(y + 1) + 2(y + 1) = 0$
$\Rightarrow (3y + 2)(y + 1) = 0$
$y = -0.66, -1$
For $x = -2.5$ and $y = -0.66, -1$ $x < y$
For $x = -1$ and $y = -0.66, -1$ $x \leq y$
Hence x is either less than or equal to y.
Hence, option B is correct.

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7. **I.** $2x^2 - 13x + 21 = 0$
$\Rightarrow 2x^2 - 6x - 7x + 21 = 0$
$\Rightarrow 2x(x - 3) - 7(x - 3) = 0$
$\Rightarrow (2x - 7)(x - 3) = 0$
$x = 3.5, 3$

II. $3y^2 - 14y + 15 = 0$
$\Rightarrow 3y^2 - 9y - 5y + 15 = 0$
$\Rightarrow 3y(y - 3) - 5(y - 3) = 0$
$\Rightarrow (3y - 5)(y - 3) = 0$
$y = 1.66, 3$

Hence, $x \geq y$

Hence, option C is correct.

8. **I.** $2x^2 - 13x + 18 = 0$
$\Rightarrow 2x^2 - 4x - 9x + 18 = 0$
$\Rightarrow 2x(x - 2) - 9(x - 2) = 0$
$\Rightarrow (2x - 9)(x - 2) = 0$
$x = 4.5, 2$

II. $y^2 - 7y + 12 = 0$
$\Rightarrow y^2 - 4y - 3y + 12 = 0$
$\Rightarrow y(y - 4) - 3(y - 4) = 0$
$\Rightarrow (y - 3)(y - 4) = 0$

$y = 4, 3$

For $x = 4.5$ and $y = 4, 3$ $x > y$
For $x = 2$ and $y = 4, 3$ $x < y$

Hence, no relationship can be established

Hence, option E is correct.

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9. **I.** $x^2 + 6x + 9 = 0$
$\Rightarrow x^2 + 3x + 3x + 9 = 0$
$\Rightarrow x(x + 3) + 3(x + 3) = 0$
$\Rightarrow (x + 3)(x + 3) = 0$
$x = -3, -3$

II. $y^2 - y - 20 = 0$
$\Rightarrow y^2 - 5y + 4y - 20 = 0$
$\Rightarrow y(y - 5) + 4(y - 5) = 0$
$\Rightarrow (y + 4)(y - 5) = 0$
$y = -4,$
For $x = -3$ and $y = -4$, $x > y$
For $x = -3$ and $y = 5$, $x < y$
Hence, no relationship can be established
Hence, option E is correct.

10. **I.** $3x^2 - 10x + 8 = 0$
$\Rightarrow 3x^2 - 6x - 4x + 8 = 0$
$\Rightarrow 3x(x - 2) - 4(x - 2) = 0$
$\Rightarrow (3x - 4)(x - 2) = 0$
$x = 4/3, 2$

II. $2y^2 - 19y + 35 = 0$
$\Rightarrow 2y^2 - 14y - 5y + 35 = 0$
$\Rightarrow 2y(y - 7) - 5(y - 7) = 0$
$\Rightarrow (2y - 5)(y - 7) = 0$
$y = 2.5, 7$

Hence, $x < y$

Hence, option D is correct.

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