

Quiz Date: 4th July 2020

Directions (1-15): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

I. $2x^2 + 11x + 14 = 0$

Q1. II. $4y^2 + 12y + 9 = 0$

- (a) if $x < y$
- (b) if $x > y$
- (c) if $x \leq y$
- (d) If $x \geq y$
- (e) if $x = y$ or no relation can be established

I. $x^2 - 4 = 0$

Q2. II. $y^2 + 6y + 9 = 0$

- (a) if $x < y$
- (b) if $x > y$
- (c) if $x \leq y$
- (d) If $x \geq y$
- (e) if $x = y$ or no relation can be established

I. $x^2 - 7x + 12 = 0$

Q3. II. $y^2 + y - 12 = 0$

- (a) if $x < y$
- (b) if $x > y$
- (c) if $x \leq y$
- (d) If $x \geq y$
- (e) if $x = y$ or no relation can be established

I. $x^2 = 729$

Q4. II. $y = \sqrt{529}$

- (a) if $x < y$
- (b) if $x > y$
- (c) if $x \leq y$
- (d) If $x \geq y$
- (e) if $x = y$ or no relation can be established

I. $x^4 - 227 = 398$

Q5. II. $y^2 + 321 = 346$

- (a) if $x < y$
- (b) if $x > y$
- (c) if $x \leq y$
- (d) If $x \geq y$

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(e) if $x = y$ or no relation can be established

I. $9x^2=1$

II. $4y^2+11y-3 = 0$

Q6.

(a) if $x < y$

(b) if $x \leq y$

(c) if $x = y$, or no relation can be established between x and y

(d) if $x > y$

(e) if $x \geq y$

I. $x^2-5 = 0$

II. $4y^2-24y+35 = 0$

Q7.

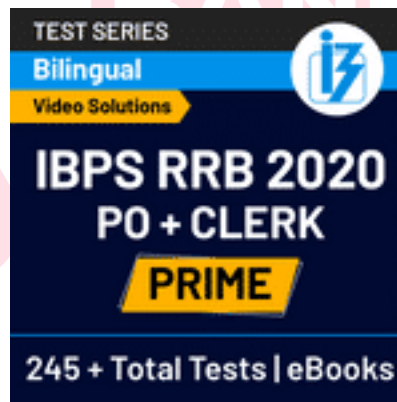
(a) if $x < y$

(b) if $x \leq y$

(c) if $x = y$, or no relation can be established between x and y

(d) if $x > y$

(e) if $x \geq y$



I. $x^2-5x-14 = 0$

II. $y^2+7y+10 = 0$

Q8.

(a) if $x < y$

(b) if $x \leq y$

(c) if $x = y$, or no relation can be established between x and y

(d) if $x > y$

(e) if $x \geq y$

I. $5x+7y=-43$

Q9. II. $9x-17y=41$

(a) if $x < y$

- (b) if $x \leq y$
 (c) if $x = y$, or no relation can be established between x and y
 (d) if $x > y$
 (e) if $x \geq y$

$$\text{I. } 2x^2 - (4 + \sqrt{13})x + 2\sqrt{13} = 0$$

$$\text{II. } 10y^2 - (18 + 5\sqrt{13})y + 9\sqrt{13} = 0$$

Q10.

- (a) if $x < y$
 (b) if $x \leq y$
 (c) if $x = y$, or no relation can be established between x and y
 (d) if $x > y$
 (e) if $x \geq y$

$$\text{I. } (p+q)^2 = 3136$$

$$\text{II. } q + 2513 = 2569$$

Q11.

- (a) if $p > q$
 (b) if $p \geq q$
 (c) if $p < q$
 (d) if $p \leq q$
 (e) if $p = q$ or there is no relation between 'p' and 'q'.

$$\text{I. } 4p^2 - 16p + 15 = 0$$

$$\text{II. } 2q^2 + 5q - 7 = 0$$

Q12.

- (a) if $p > q$
 (b) if $p \geq q$
 (c) if $p < q$
 (d) if $p \leq q$
 (e) if $p = q$ or there is no relation between 'p' and 'q'.

$$\text{I. } p^2 = 49$$

$$\text{II. } q^2 + 15q + 56 = 0$$

Q13.

- (a) if $p > q$
 (b) if $p \geq q$
 (c) if $p < q$
 (d) if $p \leq q$
 (e) if $p = q$ or there is no relation between 'p' and 'q'.

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$$I. 2p^2 + 5p - 12 = 0$$

$$II. 2q^2 - q - 1 = 0$$

Q14.

- (a) if $p > q$
 (b) if $p \geq q$
 (c) if $p < q$
 (d) if $p \leq q$
 (e) if $p = q$ or there is no relation between 'p' and 'q'.

$$I. p^2 - 12p + 35 = 0$$

$$II. q^2 - 25 = 0$$

Q15.

- (a) if $p > q$
 (b) if $p \geq q$
 (c) if $p < q$
 (d) if $p \leq q$
 (e) if $p = q$ or there is no relation between 'p' and 'q'.

S1. Ans.(a)

Sol.

$$I. 2x^2 + 4x + 7x + 14 = 0$$

$$2x(x + 2) + 7(x + 2) = 0$$

$$x = -2, -3.5$$

Solutions

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$$II. (2y + 3)^2 = 0$$

$$y = -1.5, -1.5$$

 $x < y$

S2. Ans.(b)

Sol.

$$I. x = \pm 2$$

$$II. y^2 + 3y + 3y + 9 = 0$$

$$y = -3, -3$$

 $x > y$

S3. Ans.(d)

Sol.

<p>I. $x^2 - 3x - 4x + 12 = 0$</p> <p>$x(x - 3) - 4(x - 3) = 0$</p> <p>$x = 3, 4$</p>		<p>II. $y^2 + 4y - 3y - 12 = 0$</p> <p>$y(y + 4) - 3(y + 4) = 0$</p> <p>$y = 3, -4$</p>
$x \geq y$		

S4. Ans.(e)

Sol.

I. $x = \pm 27$

II. $y = 23$

∴ No relation

S5. Ans.(e)

Sol.

I. $x^4 = 398 + 227 = 625$

$x = \pm 5$

II. $y^2 = 346 - 321$

$y = \pm 5$

no relation

S6. Ans.(c)

Sol.

$x = \frac{1}{3}, \frac{-1}{3}$

$4y^2 + 12y - y - 3 = 0$

$4y(y + 3) - 1(y + 3) = 0$

$y = \frac{1}{4}, -3$

So no relation can be established

S7. Ans.(a)

Sol.

$x = \sqrt{5}, -\sqrt{5}$

$4y^2 - 14y - 10y + 35 = 0$

$2y(2y - 7) - 5(2y - 7) = 0$

$y = \frac{5}{2}, \frac{7}{2}$

$x < y$

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S8. Ans.(e)

Sol.

$$x^2 - 7x + 2x - 14 = 0$$

$$x(x - 7) + 2(x - 7) = 0$$

$$x = 7, -2$$

$$y^2 + 5y + 2y + 10 = 0$$

$$y = -2, -5$$

$$x \geq y$$



S9. Ans.(d)

Sol.

Solving these equations.

$$x = -3, y = -4$$

$$x > y$$

S10. Ans.(e)

Sol.

$$2x^2 - 4x - \sqrt{13}x + 2\sqrt{13} = 0$$

$$2x(x - 2) - \sqrt{13}(x - 2) = 0$$

$$x = \frac{\sqrt{13}}{2}, 2$$

$$10y^2 - 18y - 5\sqrt{13}y + 9\sqrt{13} = 0$$

$$2y(5y - 9) - \sqrt{13}(5y - 9) = 0$$

$$y = \frac{\sqrt{13}}{2}, \frac{9}{5}$$

$$x \geq y$$

S11. Ans.(c)

Sol.

$$q = 56$$

$$p + q = \pm 56, p = 0$$

If $p+q=-56$ then $p=-112$

$p+q=56$ then $p=0$ so, $q > p$

S12. Ans.(a)

Sol.

$$4p^2 - 10p - 6p + 15 = 0$$

$$2p(2p - 5) - 3(2p - 5) = 0$$

$$p = \frac{3}{2}, \frac{5}{2}$$

$$2q^2 - 2q + 7q - 7 = 0$$

$$2q(q - 1) + 7(q - 1) = 0$$

$$q = \frac{-7}{2}, 1$$

$$p > q$$

S13. Ans.(b)

Sol.

$$p = 7, -7$$

$$q^2 + 7q + 8q + 56 = 0$$

$$q(q + 7) + 8(q + 7) = 0$$

$$q = -7, -8$$

$$p \geq q$$

S14. Ans.(e)

Sol.

$$2p^2 + 8p - 3p - 12 = 0$$

$$2p(p + 4) - 3(p + 4) = 0$$

$$p = \frac{3}{2}, -4$$

$$2q^2 - 2q + q - 1 = 0$$

$$2q(q - 1) + 1(q - 1) = 0$$

$$q = \frac{-1}{2}, 1$$

No relation can be established.

S15. Ans.(b)

Sol.

$$p^2 - 7p - 5p + 35 = 0$$

$$p(p - 7) - 5(p - 7) = 0$$

$$p = 5, 7$$

$$q = 5, -5$$

$$p \geq q$$

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