

Quiz Date: 27<sup>th</sup> May 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.  $2p^2 + 40 = 18p$

II.  $q^2 = 13q - 42$

Q1.

- (a) If p is greater than q.
- (b) If p is smaller than q.
- (c) If p is equal to q or no relation between p and q.
- (d) If p is either equal to or greater than q.
- (e) If p is either equal to or smaller than q.

I.  $p^2 + 24 = 10p$

II.  $2q^2 + 18 = 12q$

Q2.

- (a) If p is greater than q.
- (b) If p is smaller than q.
- (c) If p is equal to q or no relation between p and q.
- (d) If p is either equal to or greater than q.
- (e) If p is either equal to or smaller than q.

I.  $q^2 + q = 2$

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

Q3.

- (a) If p is greater than q.
- (b) If p is smaller than q.
- (c) If p is equal to q or no relation between p and q.
- (d) If p is either equal to or greater than q.
- (e) If p is either equal to or smaller than q.

I.  $p^2 + 16 = 8p$

II.  $4q^2 + 64 = 32q$

Q4.

- (a) If p is greater than q.
- (b) If p is smaller than q.
- (c) If p is equal to q or no relation between p and q.
- (d) If p is either equal to or greater than q.
- (e) If p is either equal to or smaller than q.

I.  $2p^2 + 12p + 16 = 0$

II.  $2q^2 + 14q + 24 = 0$

Q5.

- (a) If p is greater than q.
- (b) If p is smaller than q.
- (c) If p is equal to q or no relation between p and q.
- (d) If p is either equal to or greater than q.
- (e) If p is either equal to or smaller than q.

I.  $3x^2 - 13x + 14 = 0$

Q6. II.  $3y^2 - 17y + 22 = 0$

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

I.  $2x^2 + 9x + 9 = 0$

Q7. II.  $4y^2 + 9y + 5 = 0$

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

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

Q8. II.  $2y^2 - 19y + 44 = 0$

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

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I.  $x^2 - 4x - 12 = 0$

Q9. II.  $y^2 - 5y - 14 = 0$

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

I.  $3x^2 - 22x + 40 = 0$

Q10. II.  $5y^2 - 21y + 16 = 0$

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

I.  $2x^2 - 25x + 72 = 0$

Q11. II.  $4y^2 - 12y - 27 = 0$

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

I.  $8x^2 - 26x + 21 = 0$

Q12. II.  $10y^2 - 43y + 28 = 0$

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

I.  $x^2 - 18x + 65 = 0$

Q13. II.  $2y^2 - 17y + 35 = 0$

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

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$$\text{I } 7x^2 - 44x + 45 = 0$$

$$\text{II } y^2 + 15y - 100 = 0$$

Q14.

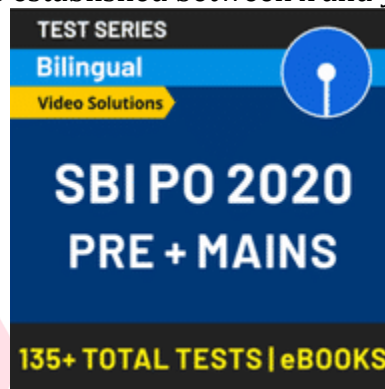
- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x < y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or no relation can be established between  $x$  and  $y$ .

$$\text{I } 3x + 7y = 18$$

$$\text{II } 9x - 2y = 8$$

Q15.

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



Solutions

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S1. Ans.(b)

Sol.

$$\text{I. } p^2 - 9p + 20 = 0$$

$$\Rightarrow p^2 - 5p - 4p + 20 = 0$$

$$\Rightarrow (p - 5)(p - 4) = 0$$

$$\Rightarrow p = 5, 4$$

$$\text{II. } q^2 - 13q + 42 = 0$$

$$\Rightarrow q^2 - 6q - 7q + 42 = 0$$

$$\Rightarrow (q - 6)(q - 7) = 0$$

$$\Rightarrow q = 6, 7$$

$$q > p$$

S2. Ans.(a)

Sol.

$$\begin{aligned} \text{I. } p^2 - 10p + 24 &= 0 \\ \Rightarrow p^2 - 6p - 4p + 24 &= 0 \\ \Rightarrow (p - 6)(p - 4) &= 0 \\ \Rightarrow p &= 6, 4 \\ \text{II. } q^2 - 6q + 9 &= 0 \\ \Rightarrow (q - 3)^2 &= 0 \\ \Rightarrow q &= 3, 3 \\ p &> q \end{aligned}$$

S3. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } q^2 + q - 2 &= 0 \\ \Rightarrow q^2 + 2q - q - 2 &= 0 \\ \Rightarrow (q + 2)(q - 1) &= 0 \\ \Rightarrow q &= 1, -2 \\ \text{II. } p^2 + 7p + 10 &= 0 \\ \Rightarrow p^2 + 5p + 2p + 10 &= 0 \\ \Rightarrow (p + 2)(p + 5) &= 0 \\ \Rightarrow p &= -2, -5 \\ q &\geq p \end{aligned}$$

S4. Ans.(c)

Sol.

$$\begin{aligned} \text{I. } p^2 - 8p + 16 &= 0 \\ \Rightarrow (p - 4)^2 &= 0 \\ \Rightarrow p &= 4, 4 \\ \text{II. } q^2 - 8q + 16 &= 0 \\ \Rightarrow (q - 4)^2 &= 0 \\ \Rightarrow q &= 4, 4 \\ q &= p \end{aligned}$$

S5. Ans.(c)

Sol.

$$\begin{aligned} \text{I. } 2p^2 + 12p + 16 &= 0 \\ \Rightarrow p^2 + 6p + 8 &= 0 \\ \Rightarrow p &= -4, -2 \\ \text{II. } q^2 + 7q + 12 &= 0 \\ \Rightarrow q^2 + 4q + 3q + 12 &= 0 \\ \Rightarrow q &= -4, -3 \\ \text{No relation} \end{aligned}$$

S6. Ans.(e)

Sol.

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$$I. 3x^2 - 13x + 14 = 0$$

$$\Rightarrow 3x^2 - 6x - 7x + 14 = 0$$

$$\Rightarrow (x - 2)(3x - 7) = 0$$

$$\Rightarrow x = 2, \frac{7}{3}$$

$$II. 3y^2 - 17y + 22 = 0$$

$$\Rightarrow 3y^2 - 6y - 11y + 22 = 0$$

$$\Rightarrow (y - 2)(3y - 11) = 0$$

$$\Rightarrow y = 2, \frac{11}{3}$$

No relation



S7. Ans.(c)

Sol.

$$I. 2x^2 + 9x + 9 = 0$$

$$\Rightarrow 2x^2 + 6x + 3x + 9 = 0$$

$$\Rightarrow (x + 3)(2x + 3) = 0$$

$$\Rightarrow x = -3, -\frac{3}{2}$$

$$II. 4y^2 + 9y + 5 = 0$$

$$\Rightarrow 4y^2 + 4y + 5y + 5 = 0$$

$$\Rightarrow (y + 1)(4y + 5) = 0 \Rightarrow y = -1, -\frac{5}{4}$$

$y > x$

S8. Ans.(d)

Sol.

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

$$\Rightarrow (x - 3)(x - 4) = 0$$

$$\Rightarrow x = 3, 4$$

$$II. 2y^2 - 19y + 44 = 0$$

$$\Rightarrow 2y^2 - 8y - 11y + 44 = 0$$

$$\Rightarrow (y - 4)(2y - 11) = 0$$

$$\Rightarrow y = 4, \frac{11}{2}$$

$y \geq x$

S9. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } x^2 - 4x - 12 &= 0 \\ \Rightarrow x^2 - 6x + 2x - 12 &= 0 \\ \Rightarrow (x - 6)(x + 2) &= 0 \\ \Rightarrow x &= 6, -2 \\ \text{II. } y^2 - 5y - 14 &= 0 \\ \Rightarrow y^2 - 7y + 2y - 14 &= 0 \\ \Rightarrow (y - 7)(y + 2) &= 0 \\ \Rightarrow y &= 7, -2 \\ \text{No relation} \end{aligned}$$

S10. Ans.(a)

Sol.

$$\begin{aligned} \text{I. } 3x^2 - 22x + 40 &= 0 \\ \Rightarrow 3x^2 - 12x - 10x + 40 &= 0 \\ \Rightarrow (x - 4)(3x - 10) &= 0 \\ \Rightarrow x &= 4, \frac{10}{3} \\ \text{II. } 5y^2 - 21y + 16 &= 0 \\ \Rightarrow 5y^2 - 5y - 16y + 16 &= 0 \\ \Rightarrow (y - 1)(5y - 16) &= 0 \\ \Rightarrow y &= 1, \frac{16}{5} \\ x &> y \end{aligned}$$

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S11. Ans.(b)

Sol.

$$\begin{aligned} \text{I. } 2x^2 - 25x + 72 &= 0 \\ 2x^2 - 16x - 9x + 72 &= 0 \\ 2x(x - 8) - 9(x - 8) &= 0 \\ x &= 8, \frac{9}{2} \\ \text{II. } 4y^2 - 12y - 27 &= 0 \\ 4y^2 + 6y - 18y - 27 &= 0 \\ 2y(2y + 3) - 9(2y + 3) &= 0 \\ y &= \frac{-3}{2}, \frac{9}{2} \\ x &\geq y \end{aligned}$$

S12. Ans.(e)

Sol.

$$I. 8x^2 - 26x + 21 = 0$$

$$8x^2 - 14x - 12x + 21 = 0$$

$$2x(4x - 7) - 3(4x - 7) = 0$$

$$x = \frac{7}{4}, \frac{3}{2}$$

$$II. 10y^2 - 43y + 28 = 0$$

$$10y^2 - 35y - 8y + 28 = 0$$

$$5y(2y - 7) - 4(2y - 7) = 0$$

$$y = \frac{7}{2}, \frac{4}{5}$$

No relation

S13. Ans.(b)

Sol.

$$I. x^2 - 18x + 65 = 0$$

$$x^2 - 13x - 5x + 65 = 0$$

$$x = 13, 5$$

$$II. 2y^2 - 17y + 35 = 0$$

$$2y^2 - 10y - 7y + 35 = 0$$

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

$$x \geq y$$

S14. Ans.(e)

Sol.

$$I. 7x^2 - 44x + 45 = 0$$

$$7x^2 - 9x - 35x + 45 = 0$$

$$x(7x - 9) - 5(7x - 9) = 0$$

$$x = 9/7, 5$$

$$II. y^2 + 15y - 100 = 0$$

$$y^2 + 20y - 5y - 100 = 0$$

$$y = 5, -20$$

No relation

S15. Ans.(c)

Sol.

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$$(i) 3x + 7y = 18$$

$$(ii) 9x - 2y = 8$$

Solving (i) and (ii)

$$x = 4/3, y = 2$$

$$y > x$$

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