

Quiz Date: 10th September 2020

Directions (1-10): In each of these questions two equations are given. You have to solve these equations and give answer.

I. $x(x+7) = 30$

Q1. II. $y = \left(\frac{100}{9}\right)^{\frac{1}{2}}$

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

I. $3x^2 - 16x + 21 = 0$

Q2. II. $6y^2 + 25y + 21 = 0$

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

I. $2x^5(x^{-2}) = 128$

Q3. II. $\frac{1}{3}y^9 = \frac{1}{24}y^{11}$

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

I. $20x^2 - 108x + 144 = 0$

Q4. II. $25y^2 - 90y + 72 = 0$

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

I. $2x^2 + 18x + 36 = 0$

Q5. II. $y^2 - 3y - 18 = 0$

- (a) if $x < y$

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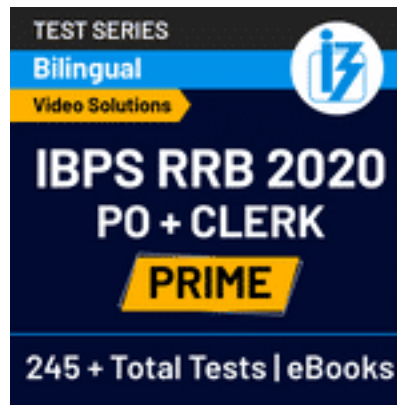
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- (b) if $x > y$
- (c) if $x = y$
- (d) if $x \geq y$
- (e) if $x \leq y$

I. $2x^2 - 15x + 27 = 0$

Q6. II. $2y^2 - 13y + 20 = 0$

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



I. $9x^2 - 21x + 10 = 0$

Q7. II. $y^2 - 8y + 15 = 0$

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

I. $2x^2 - 13x + 15 = 0$

Q8. II. $2y^2 - 11y + 12 = 0$

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

I. $2x^2 + 7x + 6 = 0$

Q9. II. $2y^2 + 17y + 30 = 0$

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

- (d) if No relation can be established between x and y or $x = y$
 (e) if $x \leq y$

$$I. x^2 - 2x - \sqrt{5}x + 2\sqrt{5} = 0$$

$$Q10. II. y^2 - \sqrt{3}y - \sqrt{2}y + \sqrt{6} = 0$$

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

Directions (11-15): What approximate value should come in place of the question mark (?) in the following questions?

$$Q11. \{(4444 + 333 + 22 + 1) - (2 \times 3 \times 4 \times 5)\} \times 2.532 = ?$$

- (a) 11700
 (b) 12250
 (c) 10800
 (d) 12100
 (e) 10500

$$Q12. 40.05\% \text{ of } 349.9 + 59.89\% \text{ of } 249.98 = ?$$

- (a) 280
 (b) 290
 (c) 270
 (d) 275
 (e) 298

$$Q13. 17\% \text{ of } 760 + 57\% \text{ of } 78.99 + 77.77 = ?$$

- (a) 238
 (b) 242
 (c) 245
 (d) 251
 (e) 256

$$Q14. 35.99\sqrt{?} + 32.0032\sqrt{?} = \frac{68}{10.998} \times (?)$$

- (a) 81
 (b) 72
 (c) 169
 (d) 121
 (e) 144

$$Q15. (3.02)^2 + (9.98)^2 + (8.13)^2 + (4.04)^2 = ?$$

- (a) 190

- (b) 230
- (c) 150
- (d) 210
- (e) 160

Solutions

S1. Ans.(a)

Sol.

$$\text{I. } (x + 10)(x - 3) = 0$$

$$x = -10, 3$$

$$\text{II. } y = \frac{10}{3}$$

Hence, $x < y$ 

S2. Ans.(b)

Sol.

$$\text{I. } (3x - 7)(x - 3) = 0$$

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

$$\text{II. } (6y + 7)(y + 3) = 0$$

$$\therefore y = -3, -\frac{7}{6}$$

Hence, $x > y$

S3. Ans.(b)

Sol.

$$\text{I. } x^3 = \frac{128}{2}$$

$$\therefore x = 4$$

$$\text{II. } \frac{1}{y^2} = \frac{1}{8}$$

$$\therefore y = \pm 2\sqrt{2}$$

Hence, $x > y$

S4. Ans.(d)

Sol.

I. $(5x - 12)(x - 3) = 0$

$x = \frac{12}{5}, 3$

II. $(5y - 6)(5y - 12) = 0$

$y = \frac{6}{5}, \frac{12}{5}$

Hence, $x \geq y$

S5. Ans.(e)

Sol.

I. $(x + 6)(x + 3) = 0$

$x = -6, -3$

II. $(y + 3)(y - 6) = 0$

$y = 6, -3$

Hence, $x \leq y$

S6. Ans.(d)

Sol.

I. $2x^2 - 15x + 27 = 0$

$\Rightarrow 2x^2 - 6x - 9x + 27 = 0$

$\Rightarrow (x - 3)(2x - 9) = 0$

$\Rightarrow x = 3, \frac{9}{2}$

II. $2y^2 - 13y + 20 = 0$

$\Rightarrow 2y^2 - 8y - 5y + 20 = 0$

$\Rightarrow (y - 4)(2y - 5) = 0$

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

No relation

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S7. Ans.(b)

Sol.

I. $9x^2 - 21x + 10 = 0$

$\Rightarrow 9x^2 - 6x - 15x + 10 = 0$

$\Rightarrow 3x(3x - 2) - 5(3x - 2) = 0$

$\Rightarrow x = \frac{2}{3}, \frac{5}{3}$

II. $y^2 - 8y + 15 = 0$

$\Rightarrow y^2 - 5y - 3y + 15 = 0$

$\Rightarrow (y - 3)(y - 5) = 0$

$\Rightarrow y = 3, 5$

 $Y > x$

S8. Ans.(d)

Sol.

I. $2x^2 - 13x + 15 = 0$

$\Rightarrow 2x^2 - 10x - 3x + 15 = 0$

$\Rightarrow (x - 5)(2x - 3) = 0$

$\Rightarrow x = 5, \frac{3}{2}$

II. $2y^2 - 11y + 12 = 0$

$\Rightarrow 2y^2 - 8y - 3y + 12 = 0$

$\Rightarrow (y - 4)(2y - 3) = 0$

$\Rightarrow y = 4, \frac{3}{2}$

No relation

S9. Ans.(a)

Sol.

I. $2x^2 + 7x + 6 = 0$

$\Rightarrow 2x^2 + 4x + 3x + 6 = 0$

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

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

II. $2y^2 + 17y + 30 = 0$

$\Rightarrow 2y^2 + 12y + 5y + 30 = 0$

$\Rightarrow (y + 6)(2y + 5) = 0$

$\Rightarrow y = -6, -\frac{5}{2}$

 $x > y$

S10. Ans.(a)

Sol.

I. $x^2 - 2x - \sqrt{5}x + 2\sqrt{5} = 0$

$\Rightarrow (x - 2)(x - \sqrt{5}) = 0$

$\Rightarrow x = 2, \sqrt{5}$

II. $y^2 - \sqrt{3}y - \sqrt{2}y + \sqrt{6} = 0$

$\Rightarrow (y - \sqrt{3})(y - \sqrt{2}) = 0$

$\Rightarrow y = \sqrt{3}, \sqrt{2}$

 $x > y$

S11. Ans.(a)

Sol.

$\approx [4800 - (120)] \times 2.5$

$= 11700$

S12. Ans.(b)

Sol.

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$$\begin{aligned} ? &\approx 4 \times 35 + 6 \times 25 \\ &\approx 290 \end{aligned}$$

S13. Ans.(d)

Sol.

$$\approx 129 + 45 + 77 \approx 251$$

S14. Ans.(d)

Sol.

$$36\sqrt{x} + 32\sqrt{x} = \frac{68}{11} \times x$$

$$68\sqrt{x} = \frac{68}{11} \times x$$

$$x^2 - 121x = 0$$

$$\Rightarrow x = 0, 121$$

S15. Ans.(a)

Sol.

$$\approx 9 + 100 + 64 + 16 \approx 190$$



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