

Quiz Date: 26th July 2020

Directions (1-10): What should come in place of question mark (?) in following simplification problems?

Q1. $\left(\frac{1}{64}\right)^0 + (64)^{-\frac{1}{2}} + (-32)^{\frac{4}{5}} = ?$

- (a) $17\frac{1}{8}$
- (b) $17\frac{3}{8}$
- (c) $11\frac{7}{8}$
- (d) $17\frac{7}{8}$
- (e) 15

Q2. If $\sqrt{2^?} = 64$

- (a) 8
- (b) 10
- (c) 12
- (d) 16
- (e) 14

Q3. $11\frac{1}{3} \times 4\frac{8}{10} \div ? = 22\frac{2}{3}$

- (a) 2.4
- (b) 4.2
- (c) 2.6
- (d) 2.8
- (e) 3.2

Q4. $(1.06 + 0.04)^2 - ? = 4 \times 1.06 \times 0.04$

- (a) 1.04
- (b) 1.4
- (c) 1.5
- (d) Can't be determined
- (e) 1.0404

Q5. $[(140)^2 \div 70 \times 16] \div 8 = 14 \times ?$

- (a) 38



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- (b) 22
- (c) 55
- (d) 40
- (e) 36

Q6. $2151.46 + 5437.54 - 6795 = ?$

- (a) 974
- (b) 794
- (c) 796
- (d) 790
- (e) 792

Q7. $\frac{2}{5}$ of 215 + $\frac{3}{4}$ of 128 - $\frac{4}{7}$ of 147 = ?

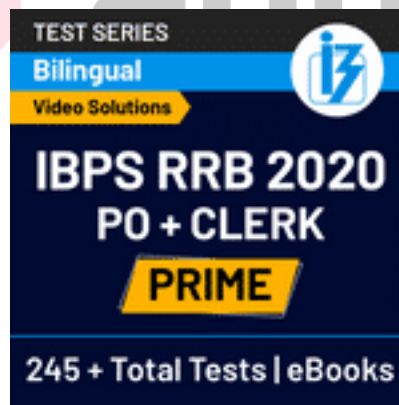
- (a) 94
- (b) 96
- (c) 98
- (d) 92
- (e) 100

Q8. 56% of 700 + 64% of 900 - 40% of 290 = ?

- (a) 848
- (b) 852
- (c) 850
- (d) 854
- (e) 846

Q9. $7777 \div 11 + 888 \div 6 = ?$

- (a) 855
- (b) 857
- (c) 853
- (d) 850
- (e) 852



Q10. $\sqrt[3]{1331} \times \frac{3}{11} \% \text{ of } 14300 = ?$

- (a) 426
- (b) 427
- (c) 431
- (d) 429
- (e) 432

Directions (11-15): In the following questions two equations numbered I and II are given. You have to solve both the equations and

I. $2x^2 - 13x + 21 = 0$

II. $2y^2 - 9y + 10 = 0$

Q11.

- (a) if $x > y$
- (b) if $x < y$
- (c) if $x \geq y$
- (d) if $x \leq y$
- (e) $x = y$ or relation cannot be established between x and y

I. $3x^2 - 14x + 15 = 0$

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

Q12.

- (a) if $x > y$
- (b) if $x < y$
- (c) if $x \geq y$
- (d) if $x \leq y$
- (e) $x = y$ or relation cannot be established between x and y

I. $x^2 - 32 = 112$

Q13. **II.** $y - \sqrt{169} = 0$

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

I. $x - \sqrt{121} = 0$

Q14. **II.** $y^2 - 121 = 0$

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

(e) if $x = y$ or the relationship cannot be established.

I. $2x^2 + 5x + 3 = 0$

Q15. II. $8y^3 + 27 = 0$

(a) if $x > y$

(b) if $x \geq y$

(c) if $x < y$

(d) if $x \leq y$

(e) if $x = y$ or the relationship cannot be established.

Solutions

S1. Ans.(a)

$$1 + \frac{1}{(64)^{\frac{1}{2}}} + (-2)^4$$

$$= 17\frac{1}{8}$$

Sol.

S2. Ans.(c)

$$\sqrt{2^?} = 64, 2^? = 64 \times 64 = 2^{12}$$

$$? = 12$$

Sol.

S3. Ans.(a)

$$\frac{\frac{34}{3} \times \frac{48}{10}}{\frac{68}{3}} = ?, ? = 2.4$$

Sol.

S4. Ans.(e)

$$(1.1)^2 - (4.24 \times 0.04) = ?$$

$$\Rightarrow ? = 1.0404$$

Sol.

S5. Ans.(d)

$$? = \frac{(280 \times 16) \div 8}{14} = 40$$

Sol.

S6. Ans.(b)

Sol.

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$$? = 794$$

S7. Ans.(c)

Sol.

$$? = 86 + 96 - 84 = 98$$

S8. Ans.(b)

Sol.

$$\begin{aligned} ? &= 56 \times 7 + 64 \times 9 - 4 \times 29 \\ &= 852 \end{aligned}$$



S9. Ans.(a)

Sol.

$$\begin{aligned} ? &= 707 + 148 \\ &= 855 \end{aligned}$$

S10. Ans.(d)

$$? = 11 \times \frac{3}{1100} \times 14300 = 429$$

Sol.

S11. Ans. (a)

$$I. 2x^2 - 13x + 21 = 0$$

$$\Rightarrow 2x^2 - 6x - 7x + 21 = 0$$

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

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

$$II. 2y^2 - 9y + 10 = 0$$

$$\Rightarrow 2y^2 - 4y - 5y + 10 = 0$$

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

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

$$x > y$$

Sol.

S12. Ans. (e)

$$\begin{aligned} \text{I. } & 3x^2 - 14x + 15 = 0 \\ & \Rightarrow 3x^2 - 9x - 5x + 15 = 0 \\ & \Rightarrow (x-3)(3x-5) = 0 \\ & \Rightarrow x = 3, \frac{5}{3} \\ \text{II. } & 2y^2 - 9y + 9 = 0 \\ & \Rightarrow 2y^2 - 6y - 3y + 9 = 0 \\ & \Rightarrow (y-3)(2y-3) = 0 \\ & \Rightarrow y = 3, \frac{3}{2} \end{aligned}$$

Sol. No relation

S13. Ans.(c)

$$\begin{aligned} \text{(I) } & x^2 - 32 = 112 \\ & \Rightarrow x^2 = 112 + 32 \\ & \Rightarrow x = \pm 12 \\ \text{(II) } & y = \sqrt{169} \\ & \Rightarrow y = 13 \\ & \therefore y > x \end{aligned}$$

Sol.

S14. Ans.(b)

$$\begin{aligned} \text{(I) } & x - \sqrt{121} = 0 \\ & \Rightarrow x = \sqrt{121} \\ & \Rightarrow x = 11 \\ \text{(II) } & y^2 - 121 = 0 \\ & \Rightarrow y^2 = 121 \\ & \Rightarrow y = \pm 11 \\ & \therefore x \geq y \end{aligned}$$

Sol.

S15. Ans. (b)

$$\begin{aligned} \text{I. } & 2x^2 + 5x + 3 = 0 \\ & 2x^2 + 2x + 3x + 3 = 0 \\ & (x+1)(2x+3) = 0 \\ & x = -1, -\frac{3}{2} \end{aligned}$$

$$\begin{aligned} \text{II. } & y^3 = -\frac{27}{8} \\ & y = -\frac{3}{2} \\ & x \geq y \end{aligned}$$

Sol.

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