

Quiz Date: 16th February 2020

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

Q1. $456 + 24 \times 0.75 - 12 = ?$

- (a) 462
- (b) 346
- (c) 294
- (d) 432
- (e) 544

Q2. $1\frac{1}{4} + 1\frac{5}{6} + 1\frac{5}{8} + 6\frac{1}{4} = ?$

- (a) $9\frac{3}{8}$
- (b) $9\frac{23}{24}$
- (c) $10\frac{23}{24}$
- (d) $9\frac{7}{15}$
- (e) $10\frac{1}{24}$

Q3. If $289 = 17^{\frac{1}{5} \times ?}$

- (a) $\frac{9}{5}$
- (b) 8
- (c) 2
- (d) $\frac{2}{5}$
- (e) 10

Q4. $0.01 \times 0.1 - 0.001 \div 10 + 0.01 + 2 = ?$

- (a) 2.01009
- (b) 1.0101
- (c) 2.0109
- (d) 2.109
- (e) 2.19

Q5. $25\% \text{ of } 480 + 22\% \text{ of } 150 = ?$

- (a) 150
- (b) 163
- (c) 173
- (d) 153
- (e) 143

Q6. $\frac{16 \times 32}{9 \times 27 \times 81} = ?$



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(a) $\left(\frac{2}{3}\right)^{12}$

(b) $\left(\frac{2}{3}\right)^{11}$

(c) $\left(\frac{2}{3}\right)^{13}$

(d) $\left(\frac{2}{3}\right)^9$

(e) $\left(\frac{1}{3}\right)^9$

Q7. $\sqrt{144} + \sqrt{361} - \sqrt{169} = \sqrt{?}$

(a) 289

(b) 324

(c) 361

(d) 400

(e) 256

Q8. $4846 + 3454 + 5156 = ? + 11342$

(a) 2114

(b) 2314

(c) 2144

(d) 2014

(e) 2018

Q9. $4^? \times (8 \times 128) = 256 \times 1024$

(a) 5

(b) 3

(c) 2

(d) 4

(e) 8

Q10. $264 \div 8 \times 12 + 224 - 64 = ?$

(a) 350

(b) 450

(c) 465

(d) 655

(e) 556

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Directions (11-15): Two equations I and II are given below in each question. You have to solve these equations and give answer

- (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

Q11. I. $x^2 - 11x + 24 = 0$

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

Q12. I. $x^2 - 3481 = 0$

II. $3y^2 = \sqrt[3]{216000}$

Q13. I. $x^2 - 5x - 14 = 0$

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

Q14. I. $5x^2 + 2x - 3 = 0$

II. $2y^2 + 7y + 6 = 0$

Q15. I. $(17)^2 + 144 \div 18 = x$

II. $(26)^2 - 18 \times 21 = y$

Solutions

S1. Ans. (a)

Sol.

$$456 + 24 \times \frac{3}{4} - 12 = ?$$

$$? = 456 + 6 = 462$$

S2. Ans. (c)

Sol.

$$9 + \left[\frac{1}{4} + \frac{5}{6} + \frac{5}{8} + \frac{1}{4} \right] = ?$$

$$9 + \left[\frac{47}{24} \right] = ?$$

$$? = 10 \frac{23}{24}$$

S3. Ans. (e)

Sol.

$$17^2 = 17^{\frac{1}{5} \times ?}$$

$$2 = \frac{1}{5} \times ?$$

$$? = 10$$

S4. Ans. (c)

Sol.

$$0.001 - 0.0001 + 2.01 = ?$$

$$? = 2.0109$$

S5. Ans. (d)

Sol.

$$\frac{25}{100} \times 480 + \frac{22}{100} \times 150 = ?$$

$$120 + 33 = ?$$

$$? = 153$$

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S6. Ans. (d)

Sol.

$$\frac{2^4 \times 2^5}{3^2 \times 3^3 \times 3^4} = ?$$

$$\left(\frac{2}{3} \right)^9 = ?$$

S7. Ans. (b)

Sol.

$$12 + 19 - 13 = \sqrt{?}$$

$$\sqrt{?} = 18$$

$$? = 324$$

S8. Ans.(a)

Sol.

$$? = 13456 - 11342$$

$$\Rightarrow ? = 2114$$

S9. Ans.(d)

Sol.

$$4^7 \times (4^5) = 4^4 \times 4^5$$

$$\Rightarrow 4^7 = 4^4$$

$$\Rightarrow ? = 4$$

S10. Ans.(e)

Sol.

$$? = 396 + 224 - 64$$

$$\Rightarrow ? = 556$$

S11. Ans.(d)

Sol. I. $x^2 - 8x - 3x + 24 = 0$

$$x(x - 8) - 3(x - 8) = 0$$

$$x = 3, 8$$

II. $2y^2 - 6y - 3y + 9 = 0$

$$2y(y - 3) - 3(y - 3) = 0$$

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

$$\therefore x \geq y$$

S12. Ans.(e)

Sol.

$$\begin{array}{l|l} \text{I. } x = \pm 59 & \text{II. } 3y^2 = 60 \\ & \Rightarrow y = \pm\sqrt{20} \end{array}$$

\therefore No relation exists.

S13. Ans. (d)

Sol.

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

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

$$x = 7, -2$$

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

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$$y = -2, -5$$
$$x \geq y$$

S14. Ans. (b)**Sol.**

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

$5x(x + 1) - 3(x + 1) = 0$

$x = \frac{3}{5}, -1$

II. $2y^2 + 4y + 3y + 6 = 0$

$2y(y + 2) + 3(y + 2) = 0$

$y = \frac{-3}{2}, -2$

$x > y$

S15. Ans.(a)**Sol.**

I. $x = 289 + \frac{144}{18} = 297$ | II. $y = 298$

$x < y$

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