

Quiz Date: 20th September 2020

Directions (1 - 5) : In each of these questions two equations numbered I & II are given. You have to solve both the equations and give answer.

- (a) If $x < y$
- (b) If $x > y$
- (c) If relationship between a and b cannot be established
- (d) If $x \geq y$
- (e) If $x \leq y$

Q1. I. $x^2 - 12x + 27 = 0$

II. $y^2 + 5y - 84 = 0$

Q2. I. $x^2 - 4x - 60 = 0$

II. $y^2 - 26y + 165 = 0$

Q3. I. $x^2 = 4624$

II. $y = \sqrt{4624}$

Q4. I. $9x^2 - 27x + 14 = 0$

II. $3y^2 - 17y + 10 = 0$

Q5. I. $12x^2 + 5x - 2 = 0$

II. $8y^2 - 6y + 1 = 0$

Directions (6-10): What should come in the place of the question mark (?) in following number series problems?

Q6. 4, 5, 12, 39, 160, ?

- (a) 840
- (b) 845
- (c) 694
- (d) 796
- (e) 805

Q7. 5, 10, 17, 28, 45, ?

- (a) 65
- (b) 70
- (c) 75
- (d) 60
- (e) 72

Q8. 48, 26, 28, 44, 90, ?

- (a) 232
- (b) 229

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- (c) 237
- (d) 227
- (e) 244

Q9. 10, 11, 24, 75, 304, ?

- (a) 1506
- (b) 1996
- (c) 1188
- (d) 1525
- (e) 1750

Q10. 14, ?, 20, 12, 26, 15

- (a) 11
- (b) 7
- (c) 9
- (d) 13
- (e) None

Directions (11 - 15): What approximate value should come in the place of question (?) marks in the given question:

Q11. 270.05% of $19.99 + 29.95 \times 2.01 = ? \times 2$

- (a) 51
- (b) 53
- (c) 57
- (d) 60
- (e) 62

Q12. $\sqrt[3]{27.03 \times 64.07} + \sqrt{63.93 \times 6.26} = \sqrt{? \times 4}$

- (a) 16
- (b) 256
- (c) 4
- (d) 512
- (e) 216

Q13. $16.09 \times \sqrt[3]{215.99} - \frac{23.95 \times 7.06}{2.93 \times 2.01} = \sqrt{?} + \sqrt{676.87}$

- (a) 1676
- (b) 1324
- (c) 1764
- (d) 1729
- (e) 1024

Q14. $?% \text{ of } 349.89 + (24.87)^2 = 67.46 + 19.99\% \text{ of } 2962.41$

- (a) 7
- (b) 2
- (c) 5

- (d) 10
(e) 15

Q15. $\frac{2187.37}{(2.99)^{4.99}} + ? = \frac{124.92 \times 24.89}{(4.89)^2}$

- (a) 105
(b) 116
(c) 124
(d) 135
(e) 145

Solutions

S1. Ans. (c)

Sol.

I. $x^2 - 12x + 27 = 0$

$x^2 - 9x - 3x + 27 = 0$

$x(x - 9) - 3(x - 9) = 0$

$(x - 9)(x - 3) = 0$

$x = 3, 9$

II. $y^2 + 5y - 84 = 0$

$y^2 + 12y - 7y - 84 = 0$

$y(y + 12) - 7(y + 12) = 0$

$(y - 7)(y + 12) = 0$

$y = 7, -12$

So, no relation

S2. Ans. (a)

Sol.

I. $x^2 - 4x - 60 = 0$

$x^2 - 10x + 6x - 60 = 0$

$x(x - 10) + 6(x - 10) = 0$

$(x + 6)(x - 10) = 0$

$x = -6, 10$

II. $y^2 - 26y + 165 = 0$

$y^2 - 11y - 15y + 165 = 0$

$y(y - 11) - 15(y - 11) = 0$

$(y - 11)(y - 15) = 0$

$y = 11, 15$

So, $y > x$

S3. Ans. (e)

Sol.

I. $x^2 = 4624$



$$x = \pm 68$$

$$\text{II. } y = \sqrt{4624}$$

$$y = 68$$

$$\text{So, } y \geq x.$$

S4. Ans (c)

Sol.

$$\text{I. } 9x^2 - 27x + 14 = 0$$

$$9x^2 - 6x - 21x + 14 = 0$$

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

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

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

$$\text{II. } 3y^2 - 17y + 10 = 0$$

$$3y^2 - 15y - 2y + 10 = 0$$

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

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

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

So, no relation

S5. Ans.(e)

Sol.

$$\text{I. } 12x^2 + 5x - 2 = 0$$

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

$$4x(3x + 2) - 1(3x + 2) = 0$$

$$(4x - 1)(3x + 2) = 0$$

$$x = \frac{1}{4}, x = \frac{-2}{3}$$

$$\text{II. } 8y^2 - 6y + 1 = 0$$

$$8y^2 - 4y - 2y + 1 = 0$$

$$4y(2y - 1) - 1(2y - 1) = 0$$

$$(4y - 1)(2y - 1) = 0$$

$$y = \frac{1}{4}, \frac{1}{2}$$

$$\therefore y \geq x$$

S6. Ans. (e)

Sol.

The pattern of this series

$$\times 1 + 1, \times 2 + 2, \times 3 + 3, \times 4 + 4, \times 5 + 5 \dots$$

$$\text{So, ?} = 805$$

S7. Ans. (b)

Sol.

The pattern of the series



+5, +7, +11, +17, +25, +35

S8. Ans. (d)

Sol.

The given pattern

$$\times \frac{1}{2} + 2, \quad \times 1 + 2, \quad \times \frac{3}{2} + 2, \quad \times 2 + 2 \dots \dots \dots$$

$$?= 227$$

S9. Ans. (d)

Sol.

$$10 \times 1 + 1 = 11$$

$$11 \times 2 + 2 = 24$$

$$24 \times 3 + 3 = 75$$

$$75 \times 4 + 4 = 304$$

$$304 \times 5 + 5 = 1525.$$

S10. Ans. (c)

Sol.

$$14 \div 2 + 2 = 9$$

$$9 \times 2 + 2 = 20$$

$$20 \div 2 + 2 = 12$$

$$12 \times 2 + 2 = 26$$

$$26 \div 2 + 2 = 15$$

S11. Ans.(c)

Sol.

$$\frac{20 \times 270}{100} + 30 \times 2 = ? \times 2$$

$$54 + 60 = ? \times 2$$

$$\frac{114}{2} = ?$$

$$57 = ?$$

S12. Ans.(b)

Sol.

$$\sqrt[3]{27 \times 64} + \sqrt{64 \times 6.25} = \sqrt{? \times 4}$$

$$3 \times 4 + 8 \times 2.5 = \sqrt{? \times 4}$$

$$\frac{32}{2} = \sqrt{?}$$

$$? = 256$$

S13. Ans.(c)

Sol.

$$16 \times 6 - \frac{24 \times 7}{3 \times 2} = \sqrt{?} + 26$$

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$$96 - 4 \times 7 = \sqrt{?} + 26$$

$$96 - 28 - 26 = \sqrt{?}$$

$$96 - 54 = \sqrt{?}$$

$$? = 1764$$

S14. Ans.(d)

Sol.

$$?\% \text{ of } 350 + (25)^2 = 67.5 + 20\% \text{ of } 2962.5$$

$$?\% \text{ of } 350 + 625 = 67.5 + \frac{2963}{5}$$

$$?\% \text{ of } 350 = 67.5 + 592.5 - 625$$

$$?\% \text{ of } 350 = 35$$

$$? = 10$$

S15. Ans.(b)

Sol.

$$\frac{2187}{3^5} + ? = \frac{125 \times 25}{5^2}$$

$$\frac{2187}{243} + ? = 125$$

$$? = 116$$

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