

**Quiz Date: 3<sup>rd</sup> May 2020**

**Directions (1-10): What should come in place of the question mark (?) In the following number series?**

Q1. 50, 25, 37.5, 93.75, 328.125, ?

- (a) 1276.5625
- (b) 1376.5625
- (c) 1476.5625
- (d) 1496.5625
- (e) 1576.5625

Q2. 5, 12.5, 54.5, 333.5, 2676.5, ?

- (a) 26795.5
- (b) 25775.5
- (c) 36775.5
- (d) 26775.5
- (e) None of these

Q3. 76, 588, 2316, 6412, 14412, ?

- (a) 28236
- (b) 38236
- (c) 46232
- (d) 18438
- (e) 28239

Q4. 119, 166, 221, 284, ?, 434

- (a) 355
- (b) 304
- (c) 329
- (d) 325
- (e) 314

Q5. 547, 467, 477, 437, 447, ?

- (a) 456
- (b) 475
- (c) 478
- (d) 447
- (e) 427

Q6. 15, 14, 19.5, 37, ?

- (a) 85
- (b) 88
- (c) 90
- (d) 92.5
- (e) none of these

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Q7. 101 63 ? 34.5 29.75

- (a) 41
- (b) 42
- (c) 43
- (d) 44
- (e) 45

Q8. 767 431 221 101 ?

- (a) 41
- (b) 42
- (c) 43
- (d) 44
- (e) 46



Q9. 5555 5506 5425 5304 5135 ?

- (a) 4925
- (b) 4910
- (c) 4945
- (d) 4995
- (e) 4909

Q10. 840 1112 1322 1478 1588 ?

- (a) 1660
- (b) 1688
- (c) 1692
- (d) 1675
- (e) 1665

**Directions (11-15):** In each of these questions, two equations (I) and (II) are given. Solve the equations and mark the correct option:

- (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  $y$ .

Q11. I.  $x^2 - 3x = 4$   
 II.  $y^2 + 6y + 8 = 0$

Q12. I.  $x^2 - 3x = 10$   
 II.  $y^2 + 7y + 10 = 0$

Q13. I.  $x^2 + x - 12 = 0$   
 II.  $y^2 - 9y + 14 = 0$

Q14. I.  $6x^2 + 5x + 1 = 0$   
 II.  $4y^2 - 15y = 4$

Q15. I.  $63x - 94\sqrt{x} + 35 = 0$   
 II.  $32y - 52\sqrt{y} + 21 = 0$

### Solutions

S1. Ans.(c)

Sol.

$$\times 0.5, \times 1.5, \times 2.5, \times 3.5, \times 4.5$$

$$328.125 \times 4.5 = 1476.5625$$

S2. Ans.(d)

Sol.

$$\times 2 + 2.5, \times 4 + 4.5, \times 6 + 6.5, \times 8 + 8.5, \times 10 + 10.5$$

$$2676.5 \times 10 + 10.5$$

$$= 26765 + 10.5$$

$$= 26775.5$$

S3. Ans.(a)

Sol.

$$+8^3, +12^3, +16^3, 20^3, + \dots$$

$$14412 + 24^3 = 28236$$

S4. Ans.(a)

Sol.

$$+(8 \times 6) - 1, +(8 \times 7) - 1, +(8 \times 8) - 1, +(8 \times 9) - 1, +(8 \times 10) - 1$$

$$284 + (8 \times 9) - 1 = 284 + 71$$

$$= 355$$

S5. Ans.(e)

Sol.

$$-80, +10, -40, +20, \dots$$

(it's a double series - 80 -40 ..... & +10 +20 .....)

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$$447 - 20 = 427$$

S6. Ans.(c)

$$\text{Sol. } \times 1 - 1, \times 1.5 - 1.5, \times 2 - 2, \times 2.5 - 2.5 \dots \dots \dots$$

S7. Ans.(d)

$$\text{Sol. } -38, -19, -9.5, -4.75 \dots \dots \dots$$

S8. Ans.(a)

$$\text{Sol. } -7^3+7, -6^3+6, -5^3+5, -4^3+4 \dots \dots \dots$$



S9. Ans (b)

$$\begin{array}{cccccc} \text{Sol.} & 5555 & 5506 & 5425 & 5304 & 5135 & ? \\ & \underbrace{\quad\quad\quad}_{-49} & \underbrace{\quad\quad\quad}_{-81} & \underbrace{\quad\quad\quad}_{-121} & \underbrace{\quad\quad\quad}_{-169} & \underbrace{\quad\quad\quad}_{-225} & \\ & =7^2 & =9^2 & =11^2 & =13^2 & =15^2 & \\ & & & 5135 - 225 & = & 4910 & \end{array}$$

S10. Ans (a)

$$\begin{aligned} \text{Sol. } & +(17^2 - 17), +(15^2 - 15), +(13^2 - 13) \dots \dots \\ & 1588 + (9^2 - 9) = 1588 + 81 - 9 = 1660 \end{aligned}$$

S11. Ans.(a)

$$\begin{aligned} \text{Sol.} & \\ \text{I. } & x^2 - 3x - 4 = 0 \\ & x^2 - 4x + x - 4 = 0 \\ & (x - 4)(x + 1) = 0 \\ & x = 4, -1 \\ \text{II. } & y^2 + 6y + 8 = 0 \\ & y^2 + 2y + 4y + 8 = 0 \\ & (y + 2)(y + 4) = 0 \\ & y = -2, -4 \\ & \Rightarrow x > y \end{aligned}$$

S12. Ans.(b)

Sol.

$$\begin{aligned} \text{I. } x^2 - 3x &= 10 \\ x^2 - 3x - 10 &= 0 \\ x^2 - 5x + 2x - 10 &= 0 \\ (x - 5)(x + 2) &= 0 \\ x &= -2, 5 \\ \text{II. } y^2 + 7y + 10 &= 0 \\ y^2 + 5y + 2y + 10 &= 0 \\ (y + 5)(y + 2) &= 0 \\ y &= -2, -5 \\ \Rightarrow x &\geq y \end{aligned}$$

S13. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } x^2 + x - 12 &= 0 \\ x^2 + 4x - 3x - 12 &= 0 \\ (x + 4)(x - 3) &= 0 \\ x &= -4, 3 \\ \text{II. } y^2 - 9y + 14 &= 0 \\ y^2 - 7y - 2y + 14 &= 0 \\ (y - 7)(y - 2) &= 0 \\ y &= 2, 7 \\ \Rightarrow \text{no relation can be established between } x &\& y. \end{aligned}$$

S14. Ans.(c)

Sol.

$$\begin{aligned} \text{I. } 6x^2 + 5x + 1 &= 0 \\ 6x^2 + 3x + 2x + 1 &= 0 \\ (3x + 1)(2x + 1) &= 0 \\ x &= \frac{-1}{3}, \frac{-1}{2} \end{aligned}$$

$$\begin{aligned} \text{II. } 4y^2 - 15y &= 4 \\ 4y^2 - 15y - 4 &= 0 \\ 4y^2 - 16y + y - 4 &= 0 \\ (4y + 1)(y - 4) &= 0 \\ y &= \frac{-1}{4}, 4 \\ \Rightarrow x &< y \end{aligned}$$

S15. Ans. (e)

Sol. Let  $\sqrt{x} = a$ 

$$\begin{aligned} 63a^2 - 94a + 35 &= 0 \\ 63a^2 - 49a - 45a + 35 &= 0 \\ 7a(9a - 7) - 5(9a - 7) &= 0 \\ a &= \frac{5}{7}, \frac{7}{9} \\ x &= \frac{25}{49}, \frac{49}{81} \end{aligned}$$

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$$\text{Let } \sqrt{y} = b$$

$$32b^2 - 52b + 21 = 0$$

$$32b^2 - 28b - 24b + 21 = 0$$

$$4b(8b - 7) - 3(8b - 7) = 0$$

$$b = \frac{3}{4}, \frac{7}{8}$$

$$y = \frac{9}{16}, \frac{49}{64}$$

No relation can be established.

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