

Quiz Date: 26th February 2020

Directions (1 - 5): What value should come in place of question mark (?) in the following questions.

Q1. $\sqrt{25+?+81} + 23 = 34$

- (a) 14
- (b) 11
- (c) 13
- (d) 15
- (e) 12

Q2. $128 \div 2^3 \times ? = \frac{2}{15} \text{ of } 50 \times 9$

- (a) 3.75
- (b) 3.33
- (c) 3.25
- (d) 4.66
- (e) 2.5

Q3. $256 \div 32 + 24 \times 3 = ? + 14 \div 2 - 17$

- (a) 100
- (b) 108
- (c) 118
- (d) 120
- (e) 90

Q4. $39\% \text{ of } 400 - 20\% \text{ of } 250 = ? - 37\% \text{ of } 200$

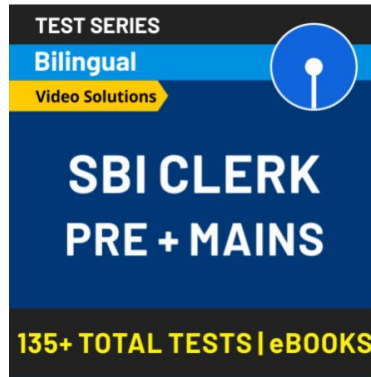
- (a) 192
- (b) 170
- (c) 180
- (d) 148
- (e) 220

Q5. $234 + 424 - 129 = ? + 182$

- (a) 344
- (b) 347
- (c) 352
- (d) 360
- (e) 380

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Q6. The distance travels by a boat in downstream 16 km more than that of in upstream in 4 hours and the speed of the boat in still water is 18 kmph. Find the distance travelled by boat in upstream in 3 hours?

- (a) 56
- (b) 42
- (c) 50
- (d) 46
- (e) 48

Q7. A and B enter into a partnership with the capital of Rs.6000 and Rs.5600 respectively but B left the partnership 2 months before the end of year, then what will be the share of B's profit after 1 year if total profit is Rs.2400?

- (a) 1050
- (b) 1100
- (c) 1200
- (d) 1120
- (e) 1500

Q8. If Pipes A, B and C can fill a tank in 15 min, 20 mins and 12 mins respectively. What will be the time taken by A, B and C together to fill the tank completely if pipe A fills the tank with its half efficiency?

- (a) 5 min
- (b) 8 min
- (c) 10 min
- (d) 6 min
- (e) 7 min

Q9. A solid cone of diameter 24 cm and 7 cm of height is melted and casted into three equal size and shape cylinders having base radius 4 cm. Find the height of each cylinder?

- (a) 6 cm
- (b) 8 cm
- (c) 5 cm
- (d) 7 cm
- (e) 10 cm

Q10. In how many ways a committee, consisting of 6 men and 3 women can be formed from 8 men and 5 women?

- (a) 240
- (b) 280
- (c) 320
- (d) 260
- (e) 220

Directions (11 – 15): Solve the following quadratic equation and mark the answer as per instructions.

Q11. I. $x^2 + x - 56 = 0$
II. $y^2 - 49 = 0$

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

Q12. I. $x^2 + x - 12 = 0$
II. $y^2 - 8y + 15 = 0$

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

Q13. I. $4x^2 - 8x + 3 = 0$
II. $4y^2 - 1 = 0$

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

Q14. I. $2x + 3y = 9$
II. $3x + 4y = 11$

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

Q15. I. $6x^2 - 13x + 6 = 0$
II. $y^2 - 1 = 0$

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

Solutions

S1. Ans(d)

Sol.

$$106 + ? = 11^2$$

$$? = 15$$

S2. Ans(a)

$$\text{Sol. } 16 \times ? = \frac{2}{15} \times 50 \times 9$$

$$? = \frac{15}{4} = 3.75$$

S3. Ans(e)

$$\text{Sol. } 8 + 72 = ? + 7 - 17$$

$$? = 90$$

S4. Ans(c)

$$\text{Sol. } 156 - 50 = ? - 74$$

$$? = 180$$

S5. Ans(b)

Sol.

$$? = 347$$

S6. Ans.(e)

$$\text{Sol. (speed of boat in downstream - Speed of boat in upstream)} \times 4 = 16 \text{ km}$$

$$\text{Different in 1 hr.} = 4 \text{ km}$$

$$\text{So, speed of stream} = 2 \text{ kmph}$$

$$\text{Speed of boat in still water} = 18 \text{ km/hr.}$$



downstream = 20 km/hr., Upstream = 16 km/hr.
 Required Distance = $3 \times 16 = 48$ km

S7. Ans.(a)

Sol.

$$\begin{array}{ccc} A & : & B \\ 6000 \times 12 & : & 5600 \times 10 \\ 9 & : & 7 \end{array}$$

$$\therefore \text{B's share} = 2400 \times \frac{7}{16} = 1050$$

S8. Ans.(d)

Sol.

	A	B	C
Time	15	20	12
Efficiency	+4	+3	+5
Total work (LCM)	60 Units		

$$\therefore \text{tank filled in 1 min} = \frac{4}{2} + 3 + 5 = 10 \text{ units}$$

$$\text{Total time} = \frac{60}{10} = 6 \text{ minutes}$$

S9. Ans.(d)

Sol.

Volume of cone = Volume of 3 cylinder

$$\frac{1}{3} \times \pi \times (12)^2 \times 7 = 3 \times \pi \times 4^2 \times h$$

$$\Rightarrow h = 7 \text{ cm}$$

S10. Ans. (b)

Sol.

$$\begin{aligned} \text{Required result} &= 8_{C_6} \times 5_{C_3} \\ &= 28 \times 10 = 280 \end{aligned}$$

S11. Ans(e)

Sol.

$$\text{I. } x^2 + 8x - 7x - 56 = 0$$

$$(x+8)(x-7) = 0$$

$$x = -8, 7$$

$$\text{II. } y^2 = 49$$

$$y = \pm 7$$

clearly, no relation can be established

S12. Ans(a)

Sol.

$$I. x^2 + 4x - 3x - 12 = 0$$

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

$$x = -4, 3$$

$$II. y^2 - 3y - 5y + 15 = 0$$

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

$$y = 3, 5$$

clearly, $x \leq y$

S13. Ans(e)

Sol.

$$I. 4x^2 - 6x - 2x + 3 = 0$$

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

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

$$II. 4y^2 - 1 = 0$$

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

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

clearly, $x \geq y$

S14. Ans(d)

Sol.

$$(II) \times 3 - (I) \times 2$$

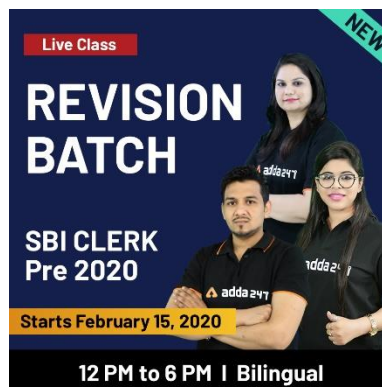
On solving,

$$x = -3, y = 5$$

$x < y$

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S15. Ans. (c)

Sol.

$$I. 6x^2 - 9x - 4x + 6 = 0$$

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

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

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

$$y = -1, 1$$

clearly, no relation

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