

Quiz Date: 29th June 2020

Directions (1-5): What should come in the place of the question mark (?) in following number series problems?

Q1. 711, 723, 747, 783, 831, 891, ?

- (a) 945
- (b) 963
- (c) 1005
- (d) 1275
- (e) 1260

Q2. 13, 13, 32.5, 130, 715, ?

- (a) 5420
- (b) 1550
- (c) 5005
- (d) 2055
- (e) 4520

Q3. 16, 17, 15, 18, 14, ?

- (a) 10
- (b) 17
- (c) 18
- (d) 19
- (e) None of these

Q4. 144, 104, 68, 42, 25, ?

- (a) 14.5
- (b) 19.6
- (c) 12.5
- (d) 13
- (e) 8.5

Q5. 13, 29, 50, 81, 127, 193, ?

- (a) 204
- (b) 221
- (c) 254
- (d) 268
- (e) 284

Directions (6-10): For the two given equations I and II.

I. $4q^2 + 8q = 4q + 8$

Q6. II. $p^2 + 9p = 2p - 12$

- (a) if P is greater than q.
- (b) if p is smaller than q.



- (c) if p is equal to q.
 (d) if p is either equal to or greater than q.
 (e) if p is either equal to or smaller than q.

I. $6p^2 + 5p + 1 = 0$

Q7. II. $20q^2 + 9q = -1$

- (a) if P is greater than q.
 (b) if p is smaller than q.
 (c) if p is equal to q.
 (d) if p is either equal to or greater than q.
 (e) if p is either equal to or smaller than q.

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I. $3p^2 + 2p - 1 = 0$

Q8. II. $2q^2 + 7q + 6 = 0$

- (a) if P is greater than q.
 (b) if p is smaller than q.
 (c) if p is equal to q.
 (d) if p is either equal to or greater than q.
 (e) if p is either equal to or smaller than q.

I. $3p^2 + 15p = -18$

Q9. II. $q^2 + 7q + 12 = 0$

- (a) if P is greater than q.
 (b) if p is smaller than q.
 (c) if p is equal to q.
 (d) if p is either equal to or greater than q.
 (e) if p is either equal to or smaller than q.

I. $p = \frac{\sqrt{4}}{\sqrt{9}}$

Q10. II. $9q^2 - 12q + 4 = 0$

- (a) if P is greater than q.
 (b) if p is smaller than q.

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- (c) if p is equal to q.
- (d) if p is either equal to or greater than q.
- (e) if p is either equal to or smaller than q.

Directions (11-15): What will come in place of (?) in the following number series?

Q11. 121, 144, 190, 259, ?, 466

- (a) 351
- (b) 349
- (c) 374
- (d) 328
- (e) None of these

Q12. 8, 64, 216, 512, 1000, 1728, ?

- (a) 4096
- (b) 2744
- (c) 3375
- (d) 2197
- (e) 4913

Q13. 3, 4, 10, 33, 136, 685, ?

- (a) 3430
- (b) 4802
- (c) 5145
- (d) 4116
- (e) 5488

Q14. 16, 12, 18, 40.5, 121.5, 455.625, ?

- (a) 2050.1125
- (b) 2050.2125
- (c) 2050.3125
- (d) 2050.4125
- (e) 2050.5125

Q15. 4, 18, 48, 100, 180, 294, ?

- (a) 448
- (b) 424
- (c) 436
- (d) 460
- (e) 412

Solutions

S1. Ans.(b)

Sol.

Pattern is

$$+12, +24, +36, +48, +60, +72$$

$$\therefore ? = 891 + 72$$

$$= 963$$

S2. Ans.(c)

Sol.

Pattern is

$$\times 1, \times 2.5, \times 4, \times 5.5, \times 7, \times 8.5 \dots$$

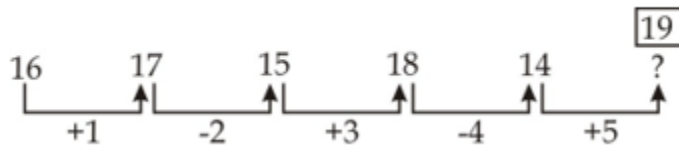
$$\therefore ? = 715 \times 7$$

$$= 5005$$

S3. Ans.(d)

Sol.

Pattern is



S4. Ans.(a)

Sol.

Pattern is

$$2 \times 64 + 16 = 144$$

$$3 \times 32 + 8 = 104$$

$$4 \times 16 + 4 = 68$$

$$5 \times 8 + 2 = 42$$

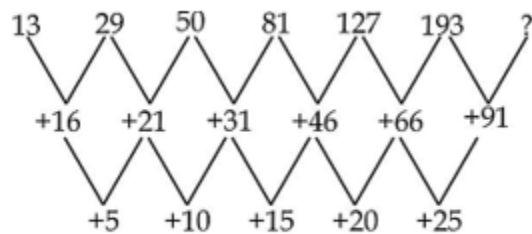
$$6 \times 4 + 1 = 25$$

$$7 \times 2 + 0.5 = 14.5$$

S5. Ans.(e)

Sol.

Pattern is



$$\therefore ? = 193 + 91$$

$$= 284$$

S6. Ans.(b)

Sol.

$$\begin{aligned} \text{I. } q^2 + q - 2 &= 0 \\ &\Rightarrow (q + 2)(q - 1) = 0 \\ &\Rightarrow q = -2, 1 \end{aligned}$$

$$\begin{aligned} \text{II. } p^2 + 7p + 12 &= 0 \\ &\Rightarrow (p + 3)(p + 4) = 0 \\ &\Rightarrow p = -3, -4 \end{aligned}$$

$$q > p$$

S7. Ans.(b)

Sol.

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

$$\begin{aligned} \text{II. } 20q^2 + 9q + 1 &= 0 \\ &\Rightarrow (5q + 1)(4q + 1) = 0 \\ &\Rightarrow q = -\frac{1}{5}, -\frac{1}{4} \end{aligned}$$

$$q > p$$

S8. Ans.(a)

Sol.

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

$$\begin{aligned} \text{II. } 2q^2 + 7q + 6 &= 0 \\ &\Rightarrow 2q^2 + 4q + 3q + 6 = 0 \\ &\Rightarrow (q + 2)(2q + 3) = 0 \\ &\Rightarrow q = -2, -\frac{3}{2} \end{aligned}$$

$$p > q$$

S9. Ans.(d)

Sol.

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$$\text{I. } p^2 + 5p + 6 = 0$$

$$\Rightarrow (p + 2)(p + 3) = 0$$

$$\Rightarrow p = -2, -3$$

$$\text{II. } q^2 + 7q + 12 = 0$$

$$\Rightarrow (q + 3)(q + 4) = 0$$

$$\Rightarrow q = -3, -4$$

$$p \geq q$$

S10. Ans.(c)

Sol.

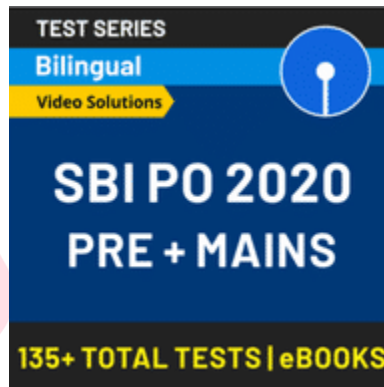
$$\text{I. } p = \frac{2}{3}$$

$$\text{II. } 9q^2 - 12q + 4 = 0$$

$$\Rightarrow (3q - 2)^2 = 0$$

$$\Rightarrow q = \frac{2}{3}$$

$$p = q$$

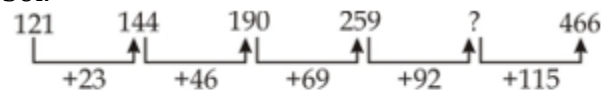


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S11. Ans.(a)

Sol.



$$\therefore 259 + 92$$

$$= 351$$

S12. Ans.(b)

Sol.

Pattern is

$$2^3, 4^3, 6^3, 8^3, 10^3, 12^3, 14^3$$

$$\therefore ? = 2744$$

S13. Ans.(d)

Sol.

Pattern is

$$\times 1+1, \times 2+2, \times 3+3, \times 4+4, \times 5+5, \times 6+6$$

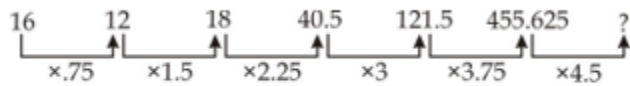
$$\therefore ? = 685 \times 6 + 6$$

$$? = 4116$$

S14. Ans.(c)

Sol.

Pattern is

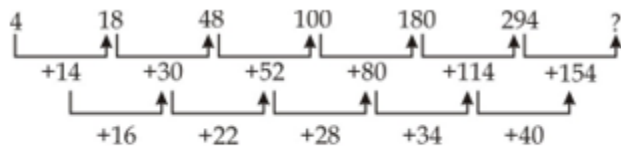


$$\therefore ? = 455.625 \times 4.5$$

$$= 2050.3125$$

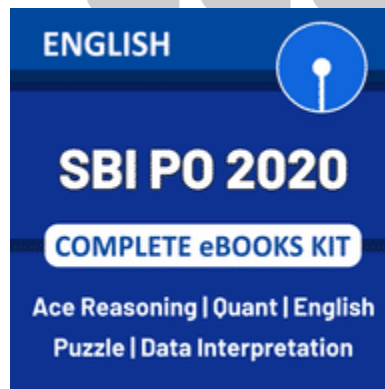
S15. Ans.(a)

Sol.



$$\therefore ? = 294 + 154$$

$$? = 448$$



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