

Quiz Date: 8th April 2020

Directions (1-15): Find the missing term in the following series.

Q1. 12, 12, 18, 45, 180, 1170, ?

- (a) 12285
- (b) 10530
- (c) 11700
- (d) 12870
- (e) 9945

Q2. 6192, 1548, 516, 129, 43, ?

- (a) 11
- (b) 10.75
- (c) 9.5
- (d) 12
- (e) 17

Q3. 8, 36, 152, 620, 2496, 10004, ?

- (a) 8190
- (b) 8187
- (c) 40040
- (d) 8163
- (e) 20080

Q4. 8, 10, 14.5, 22.5, 35, 53, ?

- (a) 36
- (b) 54.25
- (c) 65
- (d) 77.5
- (e) 90

Q5. 18, 21, 16, 23, 12, 25, ?

- (a) 24
- (b) 8
- (c) 14
- (d) 10
- (e) 42

Q6. 126, 217, 344, 513, 730, ?

- (a) 999
- (b) 1000
- (c) 1001

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- (d) 1002
(e) 1004

Q7. 2, 4, 11, 37, ?

- (a) 151
(b) 152
(c) 153
(d) 154
(e) 147

Q8. 1, 2, 6, 15, 31, ?

- (a) 54
(b) 55
(c) 56
(d) 57
(e) 58

Q9. 100, 99, 95, 86, ?

- (a) 80
(b) 90
(c) 100
(d) 70
(e) 60

Q10. 100, 100, 50, 150, 37.5, ?

- (a) 177.5
(b) 187.5
(c) 197.5
(d) 207.5
(e) 217.5

Q11. 100, 121, 144, 169, 196, ?

- (a) 225
(b) 230
(c) 235
(d) 240



(e) 245

Q12. 6, 3, 3, 4.5, 9, ?

- (a) 22.5
- (b) 20
- (c) 23.5
- (d) 21.5
- (e) 24

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

- (a) 685
- (b) 695
- (c) 775
- (d) 705
- (e) 675

Q14. 441, 484, 529, 576, 625, ?

- (a) 676
- (b) 678
- (c) 680
- (d) 682
- (e) 684

Q15. 1, 6, 21, 66, 201, ?

- (a) 606
- (b) 609
- (c) 618
- (d) 627
- (e) 636

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Solutions

S1. Ans.(a)

Sol.

The pattern is

$$\times 1.0, \times 1.5, \times (1 + 1.5), \times (1.5 + 2.5), \times (2.5 + 4), \times (4 + 6.5)$$

$$\therefore ? = 10.5 \times 1170$$

$$? = 12285$$

S2. Ans.(b)

Sol.

The pattern in the given series is —

$$\times \frac{1}{4}, \times \frac{1}{3}, \times \frac{1}{4}, \times \frac{1}{3}, \times \frac{1}{4}, \dots$$

$$\therefore ? = 43 \times \frac{1}{4}$$

$$? = 10.75$$

S3. Ans.(c)

Sol.

The pattern in the series is —

$$\times 4+4, \times 4+8, \times 4+12, \times 4+16, \times 4+20, \times 4+24$$

$$\therefore ? = 10004 \times 4 + 24$$

$$? = 40040$$

S4. Ans.(d)

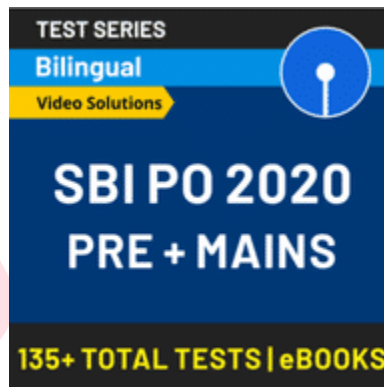
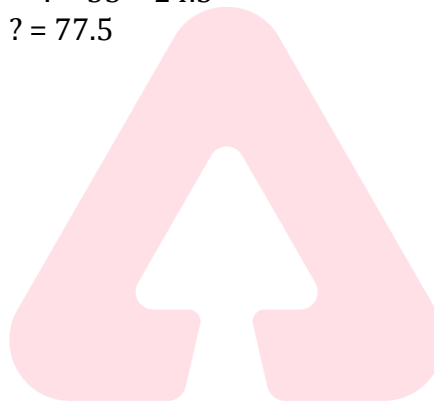
Sol.

The pattern in the given series is,

$$+2, +4.5, +8, +12.5, +18, +24.5$$

$$\therefore ? = 53 + 24.5$$

$$? = 77.5$$



S5. Ans.(b)

Sol.

The pattern will be —

$$+3, -5, +7, -11, +13, -17 \text{ (alternate + \& - of prime numbers)}$$

$$\therefore ? = 25 - 17$$

$$? = 8$$

S6. Ans.(c)

Sol.

Pattern is

$$5^3 + 1 = 126$$

$$6^3 + 1 = 217$$

$$7^3 + 1 = 344$$

$$8^3 + 1 = 513$$

$$9^3 + 1 = 730$$

$$10^3 + 1 = \underline{1001}$$

S7. Ans.(c)

Sol.

$$\begin{array}{ccccccc}
 2 & & 4 & & 11 & & 37 & & 153 \\
 \text{---} & & \text{---} & & \text{---} & & \text{---} & & \text{---} \\
 \times 1+2 & & \times 2+3 & & \times 3+4 & & \times 4+5 & &
 \end{array}$$

S8. Ans.(c)

Sol.

$$\begin{array}{ccccccc}
 1 & & 2 & & 6 & & 15 & & 31 & & 56 \\
 \text{---} & & \text{---} & & \text{---} & & \text{---} & & \text{---} & & \text{---} \\
 +1^2 & & +2^2 & & +3^2 & & +4^2 & & +5^2 & &
 \end{array}$$

S9. Ans.(d)

Sol.

$$\begin{array}{ccccccc}
 100 & & 99 & & 95 & & 86 & & 70 \\
 \text{---} & & \text{---} & & \text{---} & & \text{---} & & \text{---} \\
 -1^2 & & -2^2 & & -3^2 & & -4^2 & &
 \end{array}$$

S10. Ans.(b)

Sol.

$$\begin{array}{ccccccc}
 100 & & 100 & & 50 & & 150 & & 37.5 & & 187.5 \\
 \text{---} & & \text{---} & & \text{---} & & \text{---} & & \text{---} & & \text{---} \\
 \times 1 & & \div 2 & & \times 3 & & \div 4 & & \times 5 & &
 \end{array}$$

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S11. Ans.(a)

Sol.

$$\begin{array}{cccccc}
 100 & 121 & 144 & 169 & 196 & 225 \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\
 10^2 & 11^2 & 12^2 & 13^2 & 14^2 & 15^2
 \end{array}$$

S12. Ans.(a)

Sol.

$$6 \xrightarrow{\times 0.5} 3 \xrightarrow{\times 1} 3 \xrightarrow{\times 1.5} 4.5 \xrightarrow{\times 2} 9 \xrightarrow{\times 2.5} 22.5$$

S13. Ans.(a)

Sol.

$$3 \xrightarrow{\times 1+1} 4 \xrightarrow{\times 2+2} 10 \xrightarrow{\times 3+3} 33 \xrightarrow{\times 4+4} 136 \xrightarrow{\times 5+5} 685$$

S14. Ans.(a)

Sol.

$$441 \quad 484 \quad 529 \quad 576 \quad 625 \quad \boxed{676}$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$

$$21^2 \quad 22^2 \quad 23^2 \quad 24^2 \quad 25^2 \quad 26^2$$

S15. Ans.(a)

Sol.

$$1 \xrightarrow{\times 3+3} 6 \xrightarrow{\times 3+3} 21 \xrightarrow{\times 3+3} 66 \xrightarrow{\times 3+3} 201 \xrightarrow{\times 3+3} 606$$

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