

Quiz Date: 31st May 2020

Directions (1-5): Which one of the following numbers is wrong and does not follow the pattern in the given series?

Q1. 2, 3, 6, 18, 109, 1944, 209952

- (a) 3
- (b) 6
- (c) 18
- (d) 109
- (e) 1944

Q2. 2, 13, 27, 113, 561, 3369, 23581

- (a) 13
- (b) 27
- (c) 113
- (d) 561
- (e) 3369

Q3. 3, 9, 23, 99, 479, 2881, 20159

- (a) 9
- (b) 23
- (c) 99
- (d) 479
- (e) 2881

Q4. 2, 8, 32, 148, 765, 4626, 32431

- (a) 8
- (b) 148
- (c) 765
- (d) 32
- (e) 32431

Q5. 2, 3, 11, 38, 102, 229, 443

- (a) 11
- (b) 229
- (c) 102
- (d) 38
- (e) 3

Directions (6-15): What will come in place of (?) in the following no. series?

Q6. 1024, 1156, 1296, 1444, ?

- (a) 1936
- (b) 1764

- (c) 1600
- (d) 784
- (e) 1681

Q7. 2.5, 8, 17.5, 36, ?, 130

- (a) 68.5
- (b) 72
- (c) 69.5
- (d) 70.5
- (e) 70



Q8. 512, 128, 32, 8, 2, ?

- (a) 0.5
- (b) 1
- (c) 2
- (d) 1.5
- (e) 4

Q9. 9, 8, 24, 53, 54, 83, 99, ?

- (a) 102
- (b) 96
- (c) 98
- (d) 100
- (e) 94

Q10. 1, 3, 15, 95, 767, ?

- (a) 7679
- (b) 7697
- (c) 7579
- (d) 6911
- (e) 8447

Q11. 63, 124, 215, 342, ?, 728

- (a) 727
- (b) 513
- (c) 511

- (d) 509
(e) 507

Q12. 5, 9, 18, 43, 92, ?, 382

- (a) 252
(b) 183
(c) 227
(d) 213
(e) 206

Q13. 9, 18, 6, 12, 4, ?

- (a) 16
(b) 2
(c) 1
(d) 10
(e) 8

Q14. 3.5, 12, 22.5, 36, 54.5, ?

- (a) 78
(b) 80
(c) 80.5
(d) 82.5
(e) 84.5

Q15. 2, 1.5, 2.5, 5.25, 12.5, ?

- (a) 37.25
(b) 40
(c) 33.25
(d) 26.5
(e) 33.75

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Solutions

S1. Ans.(d)

Sol.

Given series :

$$2 \times 3 = 6$$

$$3 \times 6 = 18$$

$$18 \times 6 = 108 \neq \boxed{109}$$

$$108 \times 18 = 1944$$

S2. Ans.(a)

Sol.

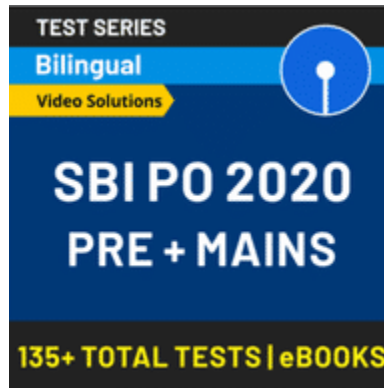
Pattern is :

$$2 \times 2 + 7 = 11 \neq \boxed{13}$$

$$11 \times 3 - 6 = 27$$

$$27 \times 4 + 5 = 113$$

$$113 \times 5 - 4 = 561$$



S3. Ans.(c)

Sol.

Given series is :

$$3 \times 2 + 3 = 9$$

$$9 \times 3 - 4 = 23$$

$$23 \times 4 + 5 = 97 \neq \boxed{99}$$

$$97 \times 5 - 6 = 479$$

S4. Ans.(d)

Sol.

Series :

$$2 \times 2 + 2^2 = 8$$

$$8 \times 3 + 3^2 = 33 \neq \boxed{32}$$

$$33 \times 4 + 4^2 = 148$$

S5. Ans.(b)

Sol.

$$2 \xrightarrow{+1^3} 3 \xrightarrow{+2^3} 11 \xrightarrow{+3^3} 38 \xrightarrow{+4^3} 102 \xrightarrow{+5^3} \boxed{229} \xrightarrow{+6^3} 443$$

$$102 + 125 = 227$$

∴ 229 is wrong. It should be replaced by 227.

S6. Ans.(c)

Sol.



Series is $32^2, 34^2, 36^2, 38^2, 40^2, \dots$

$$\therefore ? = 40^2 = 1600$$

S7. Ans.(d)

Sol.

Pattern is

$+5.5, +9.5, +18.5, +34.5, +59.5 \dots$

$$\therefore ? = 36 + 34.5 = 70.5$$

S8. Ans.(a)

Sol.

Pattern is

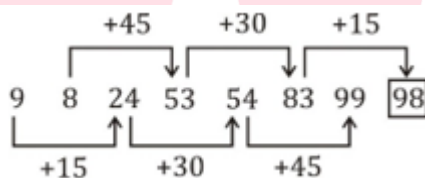
$\div 4, \div 4, \div 4, \div 4, \dots$

$$\therefore ? = 2 \div 4 = 0.5$$



S9. Ans.(c)

Sol.



S10. Ans.(a)

Sol.

Pattern is-

$\times 2 + 1, \times 4 + 3, \times 6 + 5, \times 8 + 7, \times 10 + 9 \dots$

$$\therefore ? = 767 \times 10 + 9 = 7679$$

S11. Ans.(c)

Sol.

Series is

$4^3 - 1, 5^3 - 1, 6^3 - 1, 7^3 - 1, 8^3 - 1, 9^3 - 1$

$$\therefore ? = 8^3 - 1 = 511$$

S12. Ans.(d)

Sol.

Pattern is

$$+4, +9, +25, +49, +121, +169$$

$$\therefore ? = 92 + 121 = 213$$

S13. Ans.(e)

Sol.

Pattern is

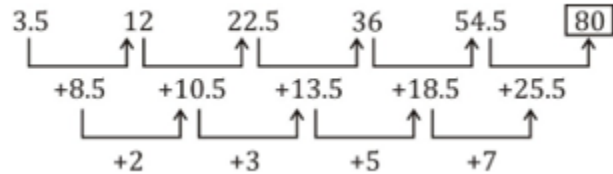
$$\times 2, \div 3, \times 2, \div 3, \times 2, \div 3$$

$$\therefore ? = 4 \times 2 = 8$$

S14. Ans.(b)

Sol.

Series is



S15. Ans.(e)

Sol. Pattern is

$$\times 0.5 + 0.5, \times 1 + 1, \times 1.5 + 1.5, \times 2 + 2, \times 2.5 + 2.5$$

$$\therefore ? = 12.5 \times 2.5 + 2.5$$

$$= 33.75$$

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