Quiz Date: 20th May 2020

Directions (1-15): What should come in place of question mark (?) in the following number series?

Q1. 4, 4, 6, 12, 30, ?
(a) 84
(b) 90
(c) 120
(d) 105
(e) 75

Q2. 3, 16, 33, 59, ?, 168
(a) 101
(b) 99
(c) 103
(d) 105
(e) 97

Q3. 2, 1, 2, 9, 62, ?
(a) 309
(b) 433
(c) 557
(d) 681
(e) 495

Q4. 0, 24, 120, 336, ?, 1320
(a) 1322
(b) 738
(c) 504
(d) 720
(e) 991

Q5. 5, 105, 41, 77, 61, ?
(a) 56
(b) 65
(c) 60
(d) 62
(e) 67

Q6. 4, 21, 56, 115, 204, ?
(a) 319
(b) 327
(c) 323
(d) 329
(e) 339

Q7. $\frac{1}{3}, 1, \frac{7}{3}, \frac{13}{3}, 7, \frac{31}{3}, ?$
(a) 9
(b) 43/3
(c) 38/3
(d) 8
(e) 37/3

Q8. 3, 7, 13, 21, ?, 43
(a) 45
(b) 35
(c) 31
(d) 40
(e) 38

Q9. 14, 27, 82, 327, 1636, ?
(a) 9916
(b) 9815
(c) 9906
(d) 9705
(e) 9601

Q10. 7, 15, ?, 88, 113, 329
(a)27
(b)25
(c) 24
(d) 31
(e) 26

Q11. 282, 286, 302, ?, 402, 502
(a) 366
(b) 318
(c) 326
(d) 338
(e) 342

Q12. 2187, 729, 243, 81, 27, 9, ?
(a) 36
(b) 3
(c) 18
(d) 6
(e) 4

Q13. 384, 381, 372, 345, 264, ?
(a) 23
(b) 25
(c) 43
(d) 24
(e) 21

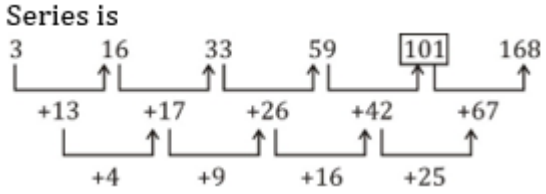
Q14. 5, 9, 18, 34, 59, 95, ?
(a) 144
(b) 160
(c) 124
(d) 154
(e) 164

Q15. 8, 15, 36, 99, 288, ?
(a) 368
(b) 676
(c) 908
(d) 855
(e) 865

Solutions

S1. Ans.(b)
Sol.
The pattern is
×1, ×1.5, ×2, 2.5, ×3
∴ ? = 30 × 3 = 90

S2. Ans.(a)
Sol.
Series is



S3. Ans.(c)
Sol.
Series is
$2 \times 1 - 1 = 1$
$1 \times 3 - 1 = 2$
$2 \times 5 - 1 = 9$
$9 \times 7 - 1 = 62$
$62 \times 9 - 1 = 557$

S4. Ans.(d)
Sol.
Series is
$1^3 - 1 = 0$
$3^3 - 3 = 24$
$5^3 - 5 = 120$
$7^3 - 7 = 336$
$9^3 - 9 = 720$
$11^3 - 11 = 1320$

S5. Ans.(b)
Sol.
Pattern is
$+100, -64, +36, -16, +4$
$\therefore ? = 61 + 4 = 65$

S6. Ans. (d)
Sol.
Pattern is $(2^3 - 4), (3^3 - 6), (4^3 - 8), (5^3 - 10)$,.....
Hence,
$? = 7^3 - 14 = 329$

S7. Ans. (b)
Sol.

Pattern is $+\frac{2}{3}, +\frac{4}{3}, +\frac{6}{3}, \ldots$

Hence, $? = \frac{31}{3} + \frac{12}{3} = \frac{43}{3}$

S8. Ans. (c)

Sol.

series is $+4, +6, +8, +10, +12,$

Hence, $? = (21 + 10) = 31$

S9. Ans.(b)

Sol.

Pattern is $\times 2-1, \times 3+1, \times 4-1, \times 5+1, \times 6-1$

$\therefore ? = 1636 \times 6 - 1 = 9815$

S10. Ans. (c)

Sol.

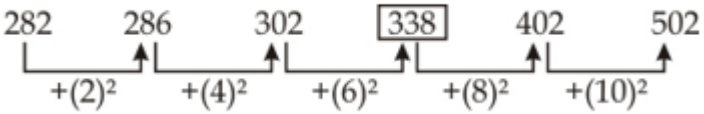
Pattern is $+2^3, +3^2, +4^3, +5^2, +6^3$

Hence required no. $? = 15 + 3^2 = 24$

S11. Ans.(d)

Sol.

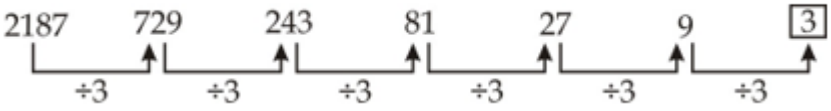
pattern is



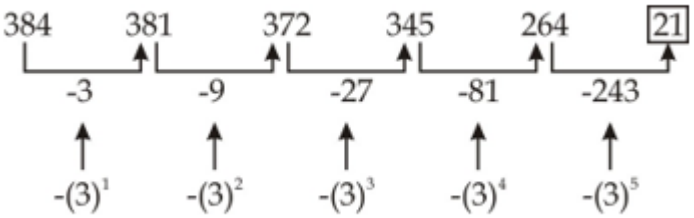
S12. Ans.(b)

Sol.

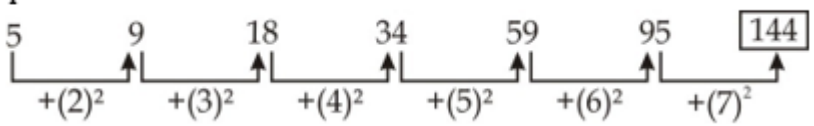
pattern is



S13. Ans.(e)
Sol.
Pattern is



S14. Ans.(a)
Sol.
pattern is



S15. Ans.(d)
Sol.
pattern is