Quiz Date: 30th June 2020

Directions (1-5): **What will come in place of (?) in the following number series?**

Q1. 499, 622, 868 , 1237, 1729 , 2344, ?
(a) 3205
(b) 3082
(c) 2959
(d) 3462
(e) 2876

Q2. 20, 24, 33 , 49 , 74 , 110 , ?
(a) 133
(b) 147
(c) 159
(d) 163
(e) 171

Q3. 224, 288 , 416, ? , 1184 , 2208
(a) 672
(b) 627
(c) 544
(d) 800
(e) 928

Q4. 16, 12, 18, 40.5 , 121.5, 455.625, ?
(a) 2050.1125
(b) 2050.2125
(c) 2050.3125
(d) 2050.4125
(e) 2050.3215

Q5. 3 , 4 , 10, 33, 136, 685, ?
(a) 3430
(b) 4802
(c) 5145
(d) 4116
(e) 4802

Directions (6-10): **What approximate value should come in place of question mark (?)in the following questions?**

$44.04 \div 3.97 \times 7.49 \div 2.54 + 3 = \sqrt{?}$

Q6.
(a) 6
(b) 36

(c) 24
(d) 1296
(e) 216

Q7. $\sqrt{37.54\% \text{ of } 400.08 + 75.07\% \text{ of } 59.92} = ?$
(a) 7
(b) 14
(c) 49
(d) 98
(e) 196

Q8. $(\sqrt{?})^{\frac{2}{3}} + (2.01)^{10} + (4.99)^3 = 1156.92$
(a) 256
(b) 128
(c) 512
(d) 1024
(e) 1296

Q9. $(4913.09)^{\frac{1}{3}} + 6.06 \times 5.98 - 33\frac{1}{3}\% \text{ of } 9.01 = 24.99\% \text{ of } 25.01\% \text{ of } ?$
(a) 1040
(b) 1600
(c) 400
(d) 800
(e) 1200

Q10. $(9.01)^3 + (7.94)^3 + 5.12 \times 17.95 = x^3$
(a) 11
(b) 15
(c) 13
(d) 10

(e) 14

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

Q11. 948, 474, ?, 118.5, 59.25, 29.625
(a) 221
(b) 190
(c) 237
(d) 189.06
(e) None of these

Q12. 374, 355, 317, ?, 184, 89
(a) 260
(b) 298
(c) 279
(d) 241
(e) None of these

Q13. 96, 94, 373, 3353, ?, 1341069
(a) 83819
(b) 53483
(c) 63813
(d) 53643
(e) None of these

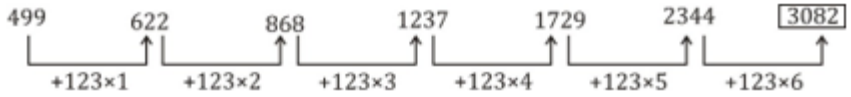
Q14. 1, 16, 81, 256, ?, 1296
(a) 400
(b) 625
(c) 875
(d) 1125
(e) None of these

Q15. 281, 141, 71, 36, 18.5, ?
(a) 9.5
(b) 9.25
(c) 10.75
(d) 10
(e) None of these

Solutions

S1. Ans.(b)

Sol. Series is



S2. Ans.(c)

Pattern is $+2^2, +3^2, +4^2, +5^2, +6^2, +7^2$

$\therefore ? = 110 + 49$

Sol. $= 159$

S3. Ans.(a)

Pattern is $+64\times1, +64\times2, +64\times4, +64\times8, +64\times16$

$\therefore ? = 416 + 64 \times 4$

Sol. $= 672$

S4. Ans.(c)

Pattern is $\times0.75,\ \times0.75\times2,\ \times0.75\times3,\ \times0.75\times4, \ldots\ldots$

$\therefore ? = 455.625 \times 0.75 \times 6$

Sol. $= 2050.3125$

S5. Ans.(d)

Pattern is $\times1 + 1,\ \times2 + 2,\ \times3 + 3,\ \times4 + 4,\ \times5 + 5,\ \times6 + 6$

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

Sol. $= 4116$

S6. Ans.(d)

Sol.

$\frac{44}{4} \times \frac{7.5}{2.5} + 3 = \sqrt{?}$

$\sqrt{?} = 11 \times 3 + 3$

$36 = \sqrt{?}$

$? = 1296$

S7. Ans.(b)

Sol.
$\sqrt{37.5\% \times 400 + 75\% \times 60}$ = ?
? = $\sqrt{150 + 45}$
? = $\sqrt{196}$
? = 14

S8. Ans.(c)
Sol.
$(?)^{\frac{2}{3}\times\frac{1}{2}} + (2)^{10} + (5)^3 = 1157$
$(?)^{\frac{1}{3}} + 1024 + 125 = 1157$
$(?)^{\frac{1}{3}} = 1157 - 1149 = 8$
? = 512

S9. Ans.(d)
Sol.
$17 + 6 \times 6 - \frac{1}{3} \times 9 = \frac{1}{4} \times \frac{1}{4} \times ?$
?= $50 \times 4 \times 4 = 800$

S10. Ans.(a)
Sol.
$729 + 512 + 5 \times 18 = ?^3$
$1241 + 90 = ?^3$
$1331 = ?^3$
? = 11

S11. Ans. (c)
Sol.
Pattern is (÷2), (÷2), (÷2) ……
∴474÷2=237

S12. Ans. (a)
Sol.
Pattern is (-19×1), (-19×2), (-19×3) ……
∴317-19×3=260

S13. Ans. (d)
Sol.
Pattern is (×1-2), (×4-3), (×9-4), (×16-5), (×25-6)
∴3353×16-5=53643

S14. Ans. (b)
Pattern is $1^4, 2^4, 3^4, 4^4, 5^4$
$5^4 = 625$
Sol.

S15. Ans. (e)
Sol.
Pattern is (÷2+0.5), (÷2+0.5)…….
∴ 18.5÷2+0.5=9.75