

Quiz Date: 8th September 2020

Directions (1-9): What will come in the place of question mark (?) in the following questions?

Q1. $\frac{\sqrt[3]{1.728} \times \sqrt[2]{24.01} \times \sqrt[5]{243}}{\sqrt[3]{729} \times \sqrt[2]{1.96} \times (\sqrt[7]{1})^{79}} = ?$

- (a) 1
- (b) 1.2
- (c) 1.8
- (d) 1.5
- (e) 1.4

Q2. $\frac{100}{17}\%$ of 4913 - $16\frac{2}{3}\%$ of 1296 - 14.28% of 343 = ?

- (a) 20
- (b) 22
- (c) 24
- (d) 26
- (e) 30

Q3. $2\frac{7}{37}$ of 4107 - 12.5% of 60800 - $(\sqrt{11})^6 = ? \times \frac{3}{2}$

- (a) 20
- (b) 30
- (c) 35
- (d) 40
- (e) 45

Q4. 39% of $\frac{1600}{13} + \sqrt{4096} = ?^2 - \sqrt[3]{729}$

- (a) 11
- (b) 12
- (c) 15
- (d) 19
- (e) 17

Q5. $(1024)^{0.2} \times (2)^5 + \frac{12}{786} \times 131 = 11^2 + ?^2$

- (a) 3
- (b) 5
- (c) 7
- (d) 1
- (e) 9

Q6. $? \times 5\frac{6}{13} \times 2\frac{2}{71} = 12\%$ of 1200

- (a) 12
- (b) 15

- (c)13
- (d)17
- (e)19

Q7. 75% of 144 +? =40% of 400

- (a)50
- (b)52
- (c)58
- (d)55
- (e)54

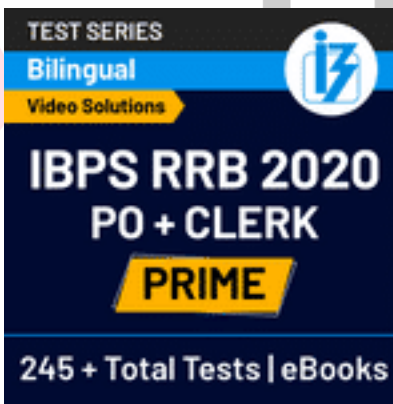
Q8. $\frac{?}{13} = 17 \times \frac{78}{289} \times \frac{169}{2197} \times 34$

- (a)126
- (b)158
- (c)187
- (d)193
- (e)156

Q9. $64^{3.5} \times 2^5 \times ? = 4^{15}$

- (a)8
- (b)16
- (c)12
- (d)32
- (e)64

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Directions (10-15): What will come in place of the question mark (?) in the following number series?

Q10. 840, 719, 638, 589, ?, 555

- (a) 572
- (b) 564
- (c)578
- (d) 570
- (d) 560

Q11. 112, 128, 176, 188, 224, ?

- (a) 233
- (b) 323
- (c) 293
- (d) 312
- (e) 248

Q12. ?, 14, 31, 97, 393, 1971

- (a) 10
- (b) 6
- (c) 8
- (d) 4
- (e) 12

Q13. 14, 116, 239, 404, 632, ?

- (a) 848
- (b) 926
- (c) 789
- (d) 944
- (e) 824

Q14. ?, 513, 537, 752, 800, 1311

- (a) 350
- (b) 375
- (c) 450
- (d) 425
- (e) 275

Q15. 24, 1354, 2081, 2421, ?, 2564

- (a) 2542
- (b) 2540
- (c) 2548
- (d) 2556
- (e) 2560

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Solutions

S1. Ans.(e)

$$\begin{aligned} \text{Sol. } & \frac{\sqrt[3]{1.728} \times \sqrt{24.01} \times \sqrt[5]{243}}{\sqrt[3]{729} \times \sqrt{1.96} \times (\sqrt[7]{1})^{79}} = ? \\ & = \frac{1.2 \times 4.9 \times 3}{9 \times 1.4 \times 1} \\ & = 1.4 \end{aligned}$$

S2. Ans(c)

$$\text{Sol. } \frac{100}{17} \% \text{ of } 4913 - 16\frac{2}{3} \% \text{ of } 1296 - 14.28 \% \text{ of } 343 = ?$$

$$? = \frac{4913}{17} - \frac{1296}{6} - \frac{343}{7}$$

$$? = 289 - 216 - 49$$

$$? = 24$$

S3. Ans(d)

$$\text{Sol. } 2\frac{7}{37} \text{ of } 4107 - 12.5\% \text{ of } 60800 - (\sqrt{11})^6 = ? \times \frac{3}{2}$$

$$? \times \frac{3}{2} = \frac{81}{37} \times 4107 - \frac{60800}{8} - 1331$$

$$? = 60 \times \frac{2}{3}$$

$$? = 40$$



S4. Ans(a)

$$\text{Sol. } 39\% \text{ of } \frac{1600}{13} + \sqrt{4096} = ?^2 - \sqrt[3]{729}$$

$$?^2 = \frac{39 \times 16}{13} + 64 + 9$$

$$?^2 = 48 + 64 + 9$$

$$? = 11$$

S5. Ans.(a)

$$\text{Sol. } (1024)^{0.2} \times (2^2)^{2.5} + \frac{12}{786} \times 131 = 11^2 + ?^2$$

$$(4^5)^{0.2} \times (2^2)^{2.5} + \frac{12}{6} = 11^2 + ?^2$$

$$?^2 = 9$$

$$? = 3$$

S6. Ans(c)

$$\text{Sol. } ? \times 5\frac{6}{13} \times 2\frac{2}{71} = 12\% \text{ of } 1200$$

$$? \times \frac{71}{13} \times \frac{144}{71} = 144$$

$$? = 13$$

S7. Ans.(b)

$$\text{Sol. } 75\% \text{ of } 144 + ? = 40\% \text{ of } 400$$

$$\frac{3}{4} \times 144 + ? = 160$$

? = 52

S8. Ans(e)

Sol.

$$\frac{?}{13} = 17 \times \frac{78}{289} \times \frac{169}{2197} \times 34$$

$$? = 13 \times 17 \times \frac{78}{289} \times \frac{1}{13} \times 34$$

? = 156

S9. Ans(b)

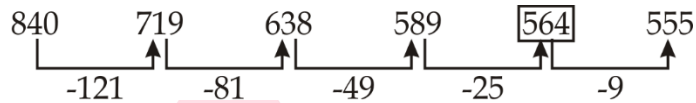
Sol. $64^{3.5} \times 2^5 \times ? = 4^{15}$

$(2^6)^{3.5} \times 2^5 \times ? = 2^{30}$

? = 16

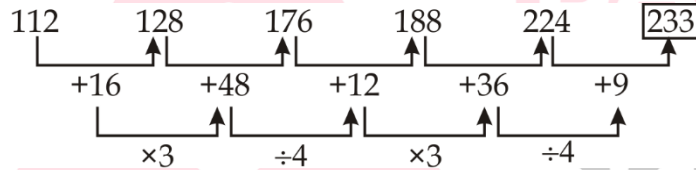
S10. Ans.(b)

Sol.



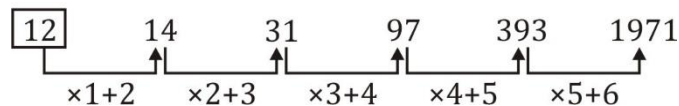
S11. Ans.(a)

Sol.



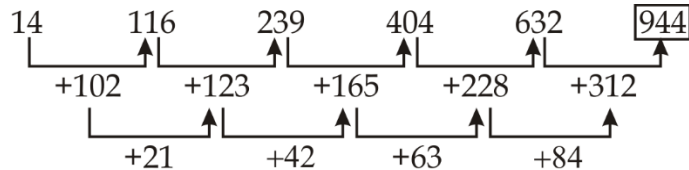
S12. Ans.(e)

Sol.



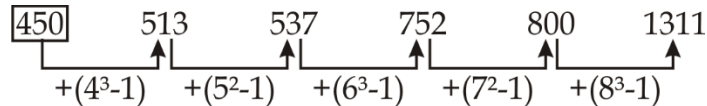
S13. Ans.(d)

Sol.



S14. Ans.(c)

Sol.



S15. Ans(a)

Sol.

Pattern of series -

$$24 + (11^3 - 1) = 1354$$

$$1354 + (9^3 - 2) = 2081$$

$$2081 + (7^3 - 3) = 2421$$

$$? = 2421 + (5^3 - 4) = 2542$$

$$2542 + (3^3 - 5) = 2564$$

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