

Quiz Date: 7<sup>th</sup> September 2020

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

Q1.  $(125)^3 \div (25)^4 \times (625)^3 \div (125)^3 = (5)^?$

- (a) 2
- (b) 4
- (c) 3
- (d) 5
- (e) 6

Q2.  $?^2 = 3\frac{6}{23}$  of  $2\frac{19}{25}$  of 81

- (a) 24
- (b) 15
- (c) 21
- (d) 18
- (e) 27

Q3.  $\frac{?}{132} \times \frac{121}{180} \times 270 = 33$

- (a) 24
- (b) 20
- (c) 18
- (d) 23
- (e) 27

Q4.  $45\% \text{ of } 500 + 40\% \text{ of } 1260 = ?^3$

- (a) 27
- (b) 6
- (c) 7
- (d) 9
- (e) 18

Q5.  $[79 + 187 - 122] \div [250 + 326 + 153]^{1/3} = ?$

- (a) 12
- (b) 14
- (c) 16
- (d) 18
- (e) 20

Q6.  $? + 325 + 729 = 372 \times 3 + 268$

- (a) 330
- (b) 230
- (c) 320
- (d) 370
- (e) 430

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Q7.  $28\% \text{ of } 420 + 36\% \text{ of } 540 = ?$

- (a) 312
- (b) 288
- (c) 296
- (d) 318
- (e) 324

Q8.  $? \times 10^4 = (9.5)^4 \times (0.95)^2$

- (a)  $(9.5)^6$
- (b)  $(0.0095)^6$
- (c)  $(0.095)^6$
- (d)  $(0.95)^6$
- (e)  $(950)^6$

Q9.  $? + 7.8 + 9.12 + 15.08 = 24.74 + 17.23 + 7.03$

- (a) 18
- (b) 19
- (c) 15
- (d) 23
- (e) 17

Q10.  $18\frac{3}{4}\% \text{ of } 800 + 16\frac{2}{3}\% \text{ of } 900 = ?$

- (a) 280
- (b) 250
- (c) 300
- (d) 320
- (e) 350

Q11.  $(54679 + 5982 + 32614) - (312 \times 69) = ?$

- (a) 71528
- (b) 77147
- (c) 71747
- (d) 61757
- (e) None of these

Q12.  $(6.5\% \text{ of } 300) - (0.8\% \text{ of } 200) = ?$

- (a) 17.9
- (b) 24.6
- (c) 17.3
- (d) 18.9
- (e) None of these

Q13.  $\sqrt[3]{?} = (756 \times 67) \div 804$

- (a) 3951

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- (b) 3500  
 (c) 3269  
 (d) 3969  
 (e) None of these

Q14. ?% of 430 + 46% of 280 = 257.8

- (a) 34  
 (b) 32  
 (c) 21  
 (d) 30  
 (e) None of these

Q15. 78% of 450 + ?% of 250 = 441

- (a) 32  
 (b) 36  
 (c) 42  
 (d) 44  
 (e) None of these

S1. Ans.(b)

Sol.

$$\frac{(125)^3}{(25)^4} \times \frac{(625)^3}{(125)^3} = 5^?$$

$$\frac{(5^3)^3 \times (5^4)^3}{(5^2)^4 \times (5^3)^3} = 5^?$$

$$\frac{5^{12}}{5^8} = 5^?$$

$$5^? = 5^4 \Rightarrow ? = 4$$

S2. Ans.(e)

Sol.

$$?^2 = 3 \frac{6}{23} \text{ of } 2 \frac{19}{25} \text{ of } 81$$

$$= \frac{75}{23} \times \frac{69}{25} \times 81$$

$$?^2 = 3 \times 3 \times 81$$

$$? = 27$$

S3. Ans.(a)

Sol.

$$? = \frac{33 \times 132 \times 180}{121 \times 270}$$

$$? = 24$$

Solutions

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S4. Ans.(d)

Sol.

$$\frac{45}{100} \times 500 + \frac{40}{100} \times 1260 = ?^3$$

$$225 + 504 = ?^3$$

$$729 = ?^3$$

$$? = 9$$

S5. Ans.(c)

Sol.

$$? = [144] \div [729]^{1/3}$$

$$= 144/9 = 16$$

S6. Ans.(a)

Sol.

$$? = 1116 + 268 - 325 - 729$$

$$= 330$$

S7. Ans.(a)

Sol.

$$? = \frac{28}{100} \times 420 + \frac{36}{100} \times 540$$

$$? = 117.6 + 194.4$$

$$? = 312$$

S8. Ans.(d)

Sol.

$$? \times 10^4 = \frac{95^4}{10^4} \times \frac{95^2}{100^2}$$

$$? = \frac{95^4 \times 95^2}{10^4 \times 10^4 \times 10^4}$$

$$? = \frac{95^6}{10^{12}} = \left(\frac{95}{10^2}\right)^6$$

$$? = (0.95)^6$$

S9. Ans.(e)

Sol.

$$? + 32 = 49$$

$$? = 17$$

S10. Ans.(c)

Sol.

$$? = \frac{75}{400} \times 800 + \frac{50}{300} \times 900$$



$$= 150 + 150 = 300$$

S11. Ans.(c)

$$\begin{aligned}\text{Sol. } ? &= (54679 + 5982 + 32614) - (312 \times 69) \\ &= 93275 - 21528 = 71747\end{aligned}$$

S12. Ans.(a)

Sol.

$$\begin{aligned} ? &= \left( \frac{300 \times 6.5}{100} \right) - \left( \frac{200 \times 0.8}{100} \right) \\ \text{Or, } ? &= 19.5 - 1.6 = 17.9 \end{aligned}$$

S13. Ans.(d)

$$\begin{aligned}\text{Sol. } \sqrt[2]{?} &= \frac{756 \times 67}{804} = 63 \\ ? &= 3969\end{aligned}$$

S14. Ans.(d)

$$\begin{aligned}\text{Sol. } \frac{?}{100} \text{ of } 430 + \frac{46}{100} \text{ of } 280 &= 257.8 \\ \Rightarrow 4.3 \times ? + 128.8 &= 257.8 \\ \therefore ? &= \frac{257.8 - 128.8}{4.3} = 30\end{aligned}$$

S15. Ans.(b)

$$\begin{aligned}\text{Sol. } \frac{78}{100} \text{ of } 450 + \frac{?}{100} \text{ of } 250 &= 441 \\ \Rightarrow 351 + 2.50 \times ? &= 441 \\ \therefore ? &= \frac{441 - 351}{2.50} = \frac{90}{2.5} = 36\end{aligned}$$

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