

Quiz Date: 13th May 2020

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

Q1. $\sqrt{1225} \div \sqrt[3]{343} \times 45\% \text{ of } 760 = ?$

- (a) 1170
- (b) 1710
- (c) 1510
- (d) 1700
- (e) 1720

Q2. $175\% \text{ of } 460 + 110\% \text{ of } 170 + 2^? = 1000$

- (a) 3
- (b) 4
- (c) 5
- (d) 2
- (e) 1

Q3. $18^{7.9} \times 3^{0.1} \times 6^{0.1} \div (3^4 \times 6^4) = 18^?$

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

Q4. $3\frac{1}{7} + 2\frac{3}{5} + 7\frac{1}{5} - 5\frac{3}{7} - \frac{18}{35} = \frac{35}{?}$

- (a) 3
- (b) 5
- (c) 7
- (d) 9
- (e) 11

Q5. $36\% \text{ of } 245 - 40\% \text{ of } 10 = 10 - ?$

- (a) 84.2
- (b) 6.8
- (c) 74.2
- (d) -75.6
- (e) -74.2

Q6. $(2 \times 3)^3 \div (4 \times 9)^2 \times (27 \times 8)^2 = (6)^?$

- (a) 5
- (b) 6
- (c) 3
- (d) 8
- (e) 7

Q7. $454.58 - 376.89 + 121.45 - 95.42 = ?$

- (a) 102.22
- (b) 103.72
- (c) 91.72
- (d) 92.32
- (e) 104.42



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Q8. $\sqrt{576} \div (4)^2 \times 7.4 + (7)^3 - 231 = ?$

- (a) 123.9
- (b) 121.1
- (c) 111.4
- (d) 122.1
- (e) 123.1

Q9. $[(84)^2 \div 28 \times 12] \div 24 = 7 \times ?$

- (a) 15
- (b) 17
- (c) 18
- (d) 21
- (e) 24

Q10. $(7.9\% \text{ of } 134) - (3.4\% \text{ of } 79) = ?$

- (a) 8.1
- (b) 7.9
- (c) 8.6
- (d) 7.3
- (e) 6.8

Q11. 55% of 960 + 65% of 1000 = ?% of 2000

- (a) 58.9
- (b) 53.7
- (c) 61.6
- (d) 63.5
- (e) 59.8

Q12. $7^{2.3} \times 49^{4.7} \times 63^{3.4} \times 81^{5.85} = 63^?$

- (a) 16.25
- (b) 15.1
- (c) 13.4
- (d) 18.9
- (e) 14.8

Q13. $?^2 + 65^2 = (160)^2 - (90)^2 - 7191$

- (a) 75
- (b) 77
- (c) 79
- (d) 81
- (e) 78

Q14. $(\sqrt{3} - 2)^2 = ? - \sqrt{12} - \sqrt{36}$

- (a) $13 - 2\sqrt{3}$
- (b) 13
- (c) 1
- (d) $13 - 4\sqrt{3}$
- (e) 14

Q15. $3\frac{1}{4} + 2\frac{1}{2} - 1\frac{5}{6} = \frac{?^2}{10} + 1\frac{5}{12}$

- (a) 25
- (b) $\sqrt{5}$
- (c) 625
- (d) 15
- (e) 5

Solutions

S1. Ans.(b)

Sol.

$$35 \div 7 \times 342 = ?$$

$$\text{Or, } ? = 1710$$

S2. Ans.(a)

Sol.

$$805 + 187 + 2^? = 1000$$

$$\text{Or, } 2^? = 8$$

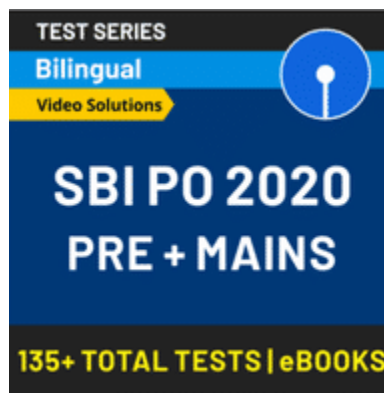
$$\text{Or, } ? = 3$$

S3. Ans.(d)

Sol.

$$18^? = 18^{7.9} \times 18^{0.1} \div 18^4$$

$$\text{Or, } ? = 7.9 + 0.1 - 4 = 4$$



S4. Ans.(b)

Sol.

$$\frac{35}{?} = \frac{22}{7} + \frac{13}{5} + \frac{36}{5} - \frac{38}{7} - \frac{18}{35} = \frac{245}{35}$$

$$\text{Or, } ? = \frac{35 \times 35}{245} = 5$$

S5. Ans.(e)

Sol.

$$88.2 - 4 = 10 - ?$$

$$\text{Or, } ? = -74.2$$

S6. Ans.(a)

Sol.

$$(6)^? = (6)^3 \div 6^4 \times 6^6$$

$$\Rightarrow (6)^? = 6^{3-4+6}$$

$$\Rightarrow ? = 5$$

S7. Ans.(b)

Sol.

$$\begin{aligned} ? &= 576.03 - 472.31 \\ &= 103.72 \end{aligned}$$

S8. Ans.(e)

Sol.

$$\begin{aligned} ? &= 24 \div 16 \times 7.4 + 343 - 231 \\ &= 11.1 + 112 \\ &= 123.1 \end{aligned}$$

S9. Ans.(c)

Sol.

$$\begin{aligned} 7 \times ? &= \frac{84 \times 84}{28} \times 12 \times \frac{1}{24} \\ ? &= 18 \end{aligned}$$

S10. Ans.(b)

Sol.

$$\begin{aligned} ? &= \frac{7.9}{100} \times 134 - \frac{3.4}{100} \times 79 \\ &= 7.9 \end{aligned}$$

S11. Ans.(a)

Sol.

$$528 + 650 = 20 \times ?$$

$$? = 58.9$$

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S12. Ans.(b)

Sol.

$$\begin{aligned} 7^{2.3} \times 7^{9.4} \times 7^{3.4} \times 9^{3.4} \times 9^{11.7} \\ \Rightarrow 7^{15.1} \times 9^{15.1} = 63^{15.1} \\ \therefore ? = 15.1 \end{aligned}$$

S13. Ans.(e)

Sol.

$$?^2 = 10309 - 4225$$

$$?^2 = 6084$$

$$? = 78$$

S14. Ans.(a)

Sol.

$$3 + 4 - 4\sqrt{3} = ? - 2\sqrt{3} - 6$$

$$? = 2\sqrt{3} - 4\sqrt{3} + 6 + 7$$

$$= 13 - 2\sqrt{3}$$

S15. Ans.(e)

Sol.

$$\frac{13}{4} + \frac{5}{2} - \frac{11}{6} - \frac{17}{12} = \frac{?^2}{10}$$

$$\Rightarrow \frac{39 + 30 - 22 - 17}{12} = \frac{?^2}{10}$$

$$\Rightarrow ?^2 = \frac{30 \times 10}{6 \times 2}$$

$$? = 5$$

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