

Quiz Date: 9th August 2020

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

Q1. $\sqrt{8^2 \times 7 \times (5)^2 - 175} = ?$

- (a) 105
- (b) 95
- (c) 115
- (d) 125
- (e) 145

Q2. $(0.125)^3 \div (0.25)^2 \times (0.5)^2 = (0.5)^{? - 3}$

- (a) 12
- (b) 18
- (c) 14
- (d) 10
- (e) 16

Q3. $64.5\% \text{ of } 800 + 36.4\% \text{ of } 1500 = (?)^2 + 38$

- (a) 32
- (b) 38
- (c) 42
- (d) 48
- (e) 34

Q4. $567 - 4824 \div 134 = ? \times 9$

- (a) 33
- (b) 59
- (c) 37
- (d) 57
- (e) 47

Q5. $4\frac{5}{6} - 5\frac{5}{9} = ? - 2\frac{1}{3} + \frac{11}{18}$

- (a) $\frac{3}{4}$
- (b) $2\frac{1}{18}$
- (c) $1\frac{7}{9}$
- (d) $1\frac{11}{18}$
- (e) 1

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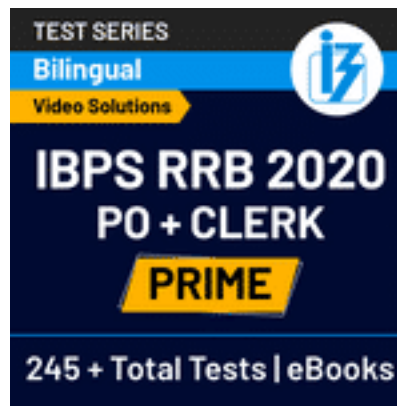
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Q6. $(98)^2 + (x) = (150)^2 - (80)^2 - 737$

- (a) 6084
- (b) 5759
- (c) 5777
- (d) 6724
- (e) 5658

Q7. $18.657 - 7.549 - 4.111 - 1.630 = x$

- (a) 4.673
- (b) 6.893
- (c) 6.562
- (d) 5.367
- (e) 6.367



Q8. $\frac{x - \sqrt{196}}{(3)^2} + \frac{108}{\sqrt{144}} = 11 \times 23$

- (a) 1600
- (b) 2345
- (c) 2210
- (d) 2025
- (e) 1975

Q9. $\sqrt{3^2 \times 17 - 4^3 - 7 \times 3 + 4^x} = 18$

- (a) 0
- (b) 4
- (c) 2
- (d) 3
- (e) 1

Q10. $137.5\% \text{ of } 760 + 9\frac{1}{11}\% \text{ of } 1243 = x + 66\frac{2}{3}\% \text{ of } 993$

- (a) 496
- (b) 524
- (c) 676

- (d) 576
(e) 484

Q11. $999 \div 3000 + 8888 \div 4400 = ?$

- (a) 2.353
(b) 23.53
(c) 0.2353
(d) 235.3
(e) 3.253

Q12. $\sqrt{21.16} \times \sqrt{6.25} = ? + \sqrt{10.24}$

- (a) 3.8
(b) 8.3
(c) 9.6
(d) 7.6
(e) 6.8

Q13. $7^3 - \frac{1331\sqrt{11}}{\sqrt{?}} = 0$

- (a) 8
(b) 9
(c) 14
(d) 12
(e) 11

Q14. $233\% \text{ of } 30 + 153\% \text{ of } 70 - 87\% \text{ of } 200 = ?$

- (a) 8
(b) 6
(c) 4
(d) 5
(e) 3

Q15. $5.6 \times 2.8 + 6.3 \times 0.9 - 2.5 \times 1.5 = ?$

- (a) 15.6
(b) 16.7
(c) 19.4
(d) 17.6
(e) 1.76

Solutions

S1. Ans.(a)

Sol.

$$\begin{aligned}
 ? &= \sqrt{8^2 \times 7 \times (5)^2 - 175} \\
 &= \sqrt{(8 \times 5)^2 \times 7 - 175} \\
 &= \sqrt{11200 - 175} \\
 &= \sqrt{11025} = 105
 \end{aligned}$$

S2. Ans.(d)

Sol.

$$\begin{aligned}
 &(0.5^3)^3 \div (0.5^2)^2 \times (0.5)^2 \\
 &= (0.5)^{7-3} \\
 &\Rightarrow 0.5^9 \div 0.5^4 \times 0.5^2 = (0.5)^{7-3} \\
 &\Rightarrow (0.5)^{9-4+2} = (0.5)^{7-3} \\
 &\Rightarrow (0.5)^7 = (0.5)^{7-3} \\
 &\Rightarrow ? - 3 = 7 \Rightarrow ? = 3 + 7 = 10
 \end{aligned}$$



S3. Ans.(a)

Sol.

$$\begin{aligned}
 &\frac{800 \times 64.5}{100} + \frac{1500 \times 36.4}{100} \\
 &= ?^2 + 38 \\
 &\Rightarrow 516 + 546 = ?^2 + 38 \\
 &\Rightarrow 1062 = ?^2 + 38 \\
 &\Rightarrow ?^2 = 1062 - 38 = 1024 \\
 &\Rightarrow ? = \sqrt{1024} = 32
 \end{aligned}$$

S4. Ans.(b)

Sol.

$$\begin{aligned}
 &567 - \frac{4824}{134} = ? \times 9 \\
 &\Rightarrow 567 - 36 = ? \times 9 \\
 &\Rightarrow ? \times 9 = 531 \\
 &\therefore ? = \frac{531}{9} = 59
 \end{aligned}$$

S5. Ans.(e)

Sol.

$$4 + \frac{5}{6} - 5 - \frac{5}{9}$$

$$=? - 2 - \frac{1}{3} + \frac{11}{18}$$

$$\Rightarrow ? = 4 - 5 + 2 + \left(\frac{5}{6} - \frac{5}{9} + \frac{1}{3} - \frac{11}{18} \right)$$

$$= 1 + \left(\frac{15 - 10 + 6 - 11}{18} \right)$$

$$= 1 + 0 = 1$$

S6. Ans.(b)

Sol.

$$(?) = 15363 - 9604$$

$$? = 5759$$

S7. Ans.(d)

Sol.

$$? = 5.367$$

S8. Ans.(c)

Sol.

$$\frac{x - \sqrt{196}}{3^2} + \frac{108}{\sqrt{144}} = 11 \times 23$$

$$\Rightarrow \frac{x - 14}{9} + \frac{108}{12} = 253$$

$$x - 14 = (253 - 9) \times 9$$

$$x = 2196 + 14$$

$$x = 2210$$

S9. Ans.(b)

Sol.

$$9 \times 17 - 64 - 21 + 4^x = 324$$

$$4^x = 256$$

$$x = 4$$

S10. Ans.(a)

Sol.



$$\frac{11}{8} \times 760 + \frac{1}{11} \times 1243 = ? + \frac{2}{3} \times 993$$
$$1045 + 113 = ? + 662$$
$$? = 496$$

S11. Ans. (a)

$$\text{Sol. } ? = 0.333 + 2.02$$
$$= 2.353$$

S12. Ans. (b)

$$\text{Sol. } ? = 4.6 \times 2.5 - 3.2$$
$$? = 8.3$$

S13. Ans. (e)

Sol.

$$?^{\frac{7}{2}} = (11)^{\frac{7}{2}}$$

$$\Rightarrow ? = 11$$

S14. Ans. (e)

$$\text{Sol. } ? = 69.9 + 107.1 - 174$$
$$? = 3$$

S15. Ans. (d)

$$\text{Sol. } ? = 21.35 - 3.75 = 17.6$$



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