

Quiz Date: 18th August 2020

Directions (1-15): What approximate value should come in the place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

Q1. $\sqrt{?} = (1346.92 + 53.11) \div 99.9 - 6.98$

- (a) 121
- (b) 441
- (c) 1024
- (d) 49
- (e) 196

Q2. $32.01^2 \times 512^{\frac{1}{3}} \times 33.99^2 \div (2^9 \times 16.97^2) = 2^?$

- (a) 3
- (b) 4
- (c) 9
- (d) 10
- (e) 6

Q3. $(14.99\% \text{ of } 4799.995) \div ? = (60.11\% \text{ of } 4.111)^2$

- (a) 150
- (b) 25
- (c) 100
- (d) 50
- (e) 125

Q4. $\frac{3}{20} \text{ of } 239.98 = ? \div (1.99 \times 0.99)$

- (a) 72
- (b) 33
- (c) 45
- (d) 37
- (e) 80

Q5. $\sqrt{1296.002} \div 8.996 \times 9.98 + 39.99 = ?$

- (a) 80
- (b) 8
- (c) 4
- (d) 120
- (e) 40

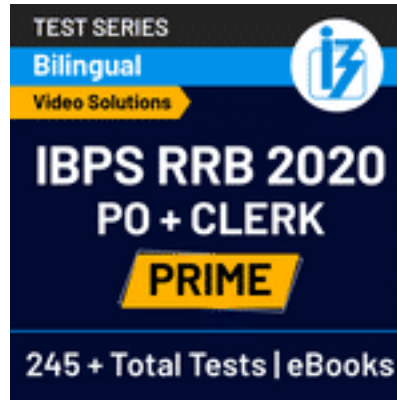
Q6. $(13.89)^2 + \sqrt{3598.97} - ? + 10.89\% \text{ of } 1999.9 = (17.9)^2$

- (a) 140
- (b) 152

- (c) 166
(d) 178
(e) 180

Q7. $(7.97)^2 - 9.87\% \text{ of } 239.97 + (17.87)^2 + 419.97 = (?)^2$

- (a) 18
(b) 22
(c) 36
(d) 40
(e) 28



Q8. $\frac{?+134.5}{12.9} + (19.87)^2 - 24.89\% \text{ of } 563.8 = (16.98)^2 - 8.79$

- (a) 138
(b) 158
(c) 124
(d) 110
(e) 150

Q9. $? \times 22.97 + (24.97)^2 - (19.99)^2 + 188.9 = (22.93)^2$

- (a) 16
(b) 10
(c) 5
(d) 1
(e) 17

Q10. $\frac{593.89}{?} + 14.97 \times 35.98 + \frac{1259.81}{17.93} = (25.99)^2$

- (a) 2
(b) 9
(c) 15
(d) 20
(e) 17

Q11. $2775 \times \frac{160}{\sqrt{?}} = 5550$

- (a) 6400
- (b) 5625
- (c) 900
- (d) 1600
- (e) 2025

$$24.98^2 \times \frac{16.02^2}{(7.98 \times 15.04)} \times 38.93 = 130 \times ?^2$$

Q12.

- (a) 25
- (b) 45
- (c) 40
- (d) 30
- (e) 20

Q13. 71.98% of 1200 + 35.06% of 270 = ?% of 600

- (a) 140
- (b) 125
- (c) 120
- (d) 135
- (e) 160

Q14. 88.05% of 450 = ?% of 530

- (a) 70
- (b) 68
- (c) 75
- (d) 80
- (e) 65

Q15. $\sqrt{899} \times (12.005)^2 + ? = 5000$

- (a) 680
- (b) 720
- (c) 750
- (d) 620
- (e) 630

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Solutions

S1. Ans.(d)

Sol.

$$\sqrt{?} \simeq (1347 + 53) \div 100 - 7$$

$$\Rightarrow \sqrt{?} \simeq 14 - 7$$

$$\Rightarrow \sqrt{?} \simeq 7$$

$$\Rightarrow ? \simeq 49$$

S2. Ans.(e)

Sol.

$$2^7 \simeq 32^2 \times 8 \times 34^2 \div (2^9 \times 17^2)$$

$$\simeq \frac{2^{15} \times 17^2}{2^9 \times 17^2}$$

$$2^7 \simeq 2^6$$

$$\Rightarrow ? \simeq 6$$

S3. Ans.(e)

Sol.

$$\left(\frac{15}{100} \times 4800\right) \div ? \simeq \left(\frac{60}{100} \times 4\right)^2$$

$$\Rightarrow ? \simeq \frac{72,000}{24 \times 24}$$

$$\Rightarrow ? \simeq 125$$

S4. Ans.(a)

Sol.

$$\frac{3}{20} \times 240 \simeq ? \div (2 \times 1)$$

$$\Rightarrow ? \simeq 72$$

S5. Ans.(a)

Sol.

$$? \simeq \frac{36}{9} \times 10 + 40$$

$$\simeq 40 + 40$$

$$? \simeq 80$$

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S6. Ans.(b)

Sol.

$$(14)^2 + \sqrt{3600} - ? + \frac{11}{100} \times 2000 = (18)^2$$

$$196 + 60 - ? + 220 = 324$$

$$? = 476 - 324$$

$$? = 152$$

S7. Ans.(e)

Sol.

$$(8)^2 - \frac{10 \times 240}{100} + (18)^2 + 420 = (?)^2$$

$$64 - 24 + 324 + 420 = (?)^2$$

$$(?)^2 = 784$$

$$? = 28$$

S8. Ans.(a)

Sol.

$$\frac{?+135}{13} + (20)^2 - \frac{25}{100} \times 564 = (17)^2 - 9$$

$$\frac{?+135}{13} + 400 - 141 = 289 - 9$$

$$\frac{?+135}{13} = 280 - 259$$

$$? = 273 - 135$$

$$? = 138$$



S9. Ans.(c)

Sol.

$$? \times 23 + (25)^2 - (20)^2 + 189 = (23)^2$$

$$23 \times ? + 225 + 189 = 529$$

$$23 \times ? = 115$$

$$? = 5$$

S10. Ans.(b)

Sol.

$$\frac{594}{?} + 15 \times 36 + \frac{1260}{18} = (26)^2$$

$$\frac{594}{?} + 540 + 70 = 676$$

$$? = \frac{594}{66}$$

$$? = 9$$

S11. Ans.(a)

Sol.

$$2775 \times \frac{160}{\sqrt{?}} = 5550$$

$$\sqrt{?} = 80$$

$$\Rightarrow ? = 6400$$

S12. Ans.(e)

Sol.

$$25^2 \times \frac{16^2}{8 \times 15} \times 39 = 130 \times ?^2$$

$$\Rightarrow ?^2 = \frac{25^2 \times 16^2 \times 39}{8 \times 15 \times 130}$$

$$\Rightarrow ?^2 = \frac{125 \times 16}{5}$$

$$\Rightarrow ?^2 = (5 \times 4)^2$$

$$\Rightarrow ?^2 = 20^2$$

$$\Rightarrow ? = 20$$

S13. Ans.(e)

Sol.

$$\frac{72}{100} \times 1200 + \frac{35}{100} \times 270 = \frac{?}{100} \times 600$$

$$\Rightarrow ? = 159.75$$

$$\Rightarrow ? \approx 160$$

S14. Ans.(c)

Sol.

$$\frac{88}{100} \times 450 \approx \frac{?}{100} \times 530$$

$$\Rightarrow ? \approx 74.716$$

$$\Rightarrow ? \approx 75$$

S15. Ans.(a)

Sol.

$$\sqrt{899} \times (12.005)^2 + ? = 5000$$

$$\Rightarrow 30 \times 12^2 + ? = 5000$$

$$\Rightarrow ? = 680$$

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