

Quiz Date: 6<sup>th</sup> July 2020

**Directions (1-15):** Calculate the approximate value of the question mark (?) in the given questions:

Q1.  $149.78\% \text{ of } 15.89 + \sqrt{255.81} \times 3.95 = ? - 139.59$

- (a) 248
- (b) 212
- (c) 218
- (d) 228
- (e) 232

Q2.  $? + 1349.71 \div 2.99 - 124.82 = 120.03\% \text{ of } 1649.82$

- (a) 1655
- (b) 1755
- (c) 1720
- (d) 1225
- (e) 1680

Q3.  $(?)^2 + 180.21 \times 4.9 + 64.8 \times 3.8 = 2384.78$

- (a) 40
- (b) 30
- (c) 35
- (d) 25
- (e) 45

Q4.  $?\% \text{ of } 299.71 = (21.03)^2 + (18.89)^2 + (6.03)^3 + 2.01$

- (a) 225
- (b) 280
- (c) 250
- (d) 325
- (e) 340

Q5.  $\sqrt{?} + 789.81\% \text{ of } 119.79 + 199.81 = 2180.01 - (31.81)^2$

- (a) 100
- (b) 121
- (c) 64
- (d) 144
- (e) 81

Q6.  $?^3 \times 17.98 + 12.03\% \text{ of } 450.03 = (14.02)^2 + \sqrt[4]{15.99}$

- (a) 9
- (b) 2
- (c) 5

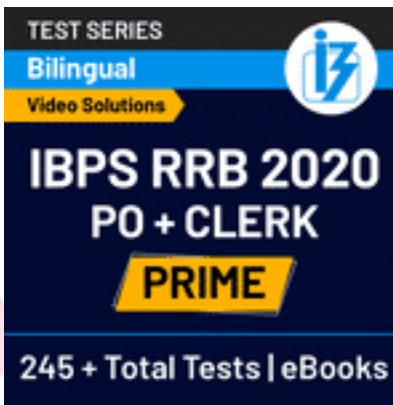
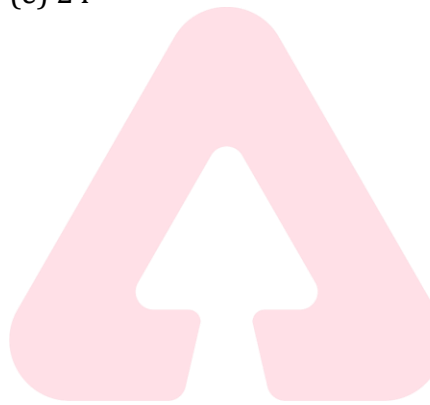
- (d) 8  
(e) 11

Q7.  $\frac{?}{14.08} + (22.03)^2 = (23.98)^2 + \sqrt[3]{63.98}$

- (a) 1344  
(b) 1300  
(c) 1296  
(d) 1248  
(e) 1440

Q8. ? % of 1355.02 + 19.98% of 1210.01 = (27.99)<sup>2</sup>

- (a) 75  
(b) 80  
(c) 60  
(d) 40  
(e) 24



Q9. ? + 35.09 % of 1279.98 = (24.03)<sup>2</sup> +  $\sqrt{195.98}$

- (a) 142  
(b) 148  
(c) 156  
(d) 164  
(e) 176

Q10. 56.03 % of ? + 125.02% of 96.03 = (13.98)<sup>2</sup> -  $\sqrt[4]{1295.98}$

- (a) 120  
(b) 115  
(c) 105  
(d) 125  
(e) 135

Q11. 21 + 4.9 × 7.9 + 9.88 = ?

- (a) 65
- (b) 71
- (c) 66
- (d) 75
- (e) 81

Q12.  $138\%$  of 3781 +  $38.74\%$  of 141 = ?

- (a) 5288
- (b) 5248
- (c) 5271
- (d) 5444
- (e) 6444

Q13.  $(340 \times 9.98) \div 6.4001 + 1245.15 = ?$

- (a) 1766
- (b) 1776
- (c) 1676
- (d) 1876
- (e) 1806

Q14.  $31.95^2 - 12.05^2 + (1987.25 + 21.85) \div ? = 900$

- (a) 115
- (b) 120
- (c) 90
- (d) 85
- (e) 100

Q15.  $1576 \div 45.02 + 23.99 \times \sqrt{255} = ?$

- (a) 340
- (b) 420
- (c) 380
- (d) 460
- (e) 360

### Solutions

S1. Ans.(d)

Sol.

$$\frac{150}{100} \times 16 + 16 \times 4 \approx ? - 140$$

$$24 + 64 + 140 = ?$$

$$? = 228$$

S2. Ans.(a)

Sol.

$$\begin{aligned} ? + \frac{1350}{3} - 125 &\approx \frac{120}{100} \times 1650 \\ ? + 450 - 125 &= 1980 \\ ? &= 1655 \end{aligned}$$

S3. Ans.(c)

Sol.

$$\begin{aligned} (?)^2 + 900 + 260 &\approx 2385 \\ (?)^2 &= 1225 \\ ? &= 35 \end{aligned}$$



S4. Ans.(e)

Sol.

$$\begin{aligned} \frac{?}{100} \times 300 &\approx (21)^2 + (19)^2 + (6)^3 + 2.01 \\ ? \times 3 &= 441 + 361 + 216 + 2 \\ ? &= \frac{1020}{3} = 340 \end{aligned}$$

S5. Ans.(c)

Sol.

$$\begin{aligned} \sqrt{?} + \frac{790}{100} \times 120 + 200 &\approx 2180 - 1024 \\ \sqrt{?} + 948 + 200 &\approx 1156 \\ \sqrt{?} &= 8 \\ ? &= 64 \end{aligned}$$

S6. Ans(b)

Sol.

$$\begin{aligned} ?^3 \times 18 + \frac{12}{100} \times 450 &= (14)^2 + \sqrt[4]{16} \\ ?^3 \times 18 + 54 &= 196 + 2 \\ ?^3 \times 18 &= 198 - 54 \\ ?^3 \times 18 &= 144 \\ ?^3 &= 8 \\ ? &= 2 \end{aligned}$$

S7. Ans(a)

Sol.

$$\begin{aligned}\frac{?}{14} + (22)^2 &= (24)^2 + \sqrt[3]{64} \\ \frac{?}{14} + 484 &= 576 + 4 \\ \frac{?}{14} &= 580 - 484 \\ ? &= 96 \times 14 \\ ? &= 1344\end{aligned}$$

S8. Ans(d)

Sol.

$$\begin{aligned}\frac{?}{100} \times 1355 + \frac{20}{100} \times 1210 &= (28)^2 \\ \frac{?}{100} \times 1355 + 242 &= 784 \\ \frac{?}{100} \times 1355 &= 784 - 242 \\ \frac{?}{100} \times 1355 &= 542 \\ ? &= \frac{542 \times 100}{1355} \\ ? &= 40\end{aligned}$$

S9. Ans(a)

Sol.

$$\begin{aligned}? + \frac{35}{100} \times 1280 &= (24)^2 + \sqrt{196} \\ ? + 448 &= 576 + 14 \\ ? &= 590 - 448 \\ ? &= 142\end{aligned}$$

S10. Ans(d)

Sol.

$$\begin{aligned}\frac{56}{100} \times ? + \frac{125}{100} \times 96 &= (14)^2 - \sqrt[4]{1296} \\ \frac{56}{100} \times ? + 120 &= 196 - 6 \\ \frac{56}{100} \times ? &= 190 - 120 \\ \frac{56}{100} \times ? &= 70 \\ ? &= \frac{70 \times 100}{56} \\ ? &= 125\end{aligned}$$

S11. Ans.(b)

$$? \simeq 21 + 5 \times 8 + 10$$

Sol.  $\simeq 71$ 

S12. Ans.(c)

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$$? \simeq 1.38 \times 3780 + \frac{39}{100} \times 140$$

Sol.  $\simeq 5,271$

S13. Ans.(b)

$$? \simeq \frac{340 \times 10}{6.4} + 1245$$

$$\simeq 1776.25$$

Sol.  $\simeq 1776$

S14. Ans.(e)

$$32^2 - 12^2 + \frac{2009}{?} \simeq 900$$

$$\Rightarrow ? \simeq \frac{2009}{20}$$

Sol.  $\Rightarrow ? \simeq 100$

S15. Ans.(b)

$$? \simeq \frac{1575}{45} + 24 \times 16$$

$$\simeq 419$$

Sol.  $\simeq 420$



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