

Quiz Date: 25th August 2020

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

Q1. 40% of 265 + 35% of 180 = 50% of ?

- (a) 338
- (b) 84.5
- (c) 253.5
- (d) 169
- (e) None of these

Q2. $460 \times 15 - 5 \times 20 = ?$

- (a) 92000
- (b) 4600
- (c) 137800
- (d) 7000
- (e) None of these

Q3. $5163 - 4018 + 3209 = ?$

- (a) 4174
- (b) 4264
- (c) 4804
- (d) 4354
- (e) None of these

Q4. $4\frac{1}{5} \times 3\frac{1}{3} + ? = 20\%$ of 120

- (a) $10\frac{1}{15}$
- (b) 10
- (c) 5
- (d) 15
- (e) None of these

Q5. $4848 \div 24 \times 11 - 222 = ?$

- (a) 200
- (b) 2444
- (c) 2000
- (d) $115\frac{3}{8}$
- (e) None of these

Q6. 40% of 265 + 35% of 180 = 50% of ? + $?\%$ of 80

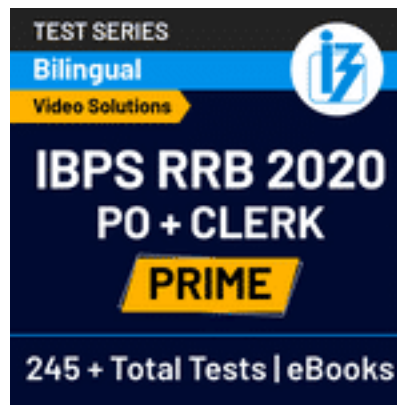
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- (a) 80
- (b) 95.5
- (c) 130
- (d) 125.5
- (e) 115

Q7. $4\frac{1}{5} \times 3\frac{1}{3} + ? = 20\% \text{ of } (91125)^{\frac{1}{3}}$

- (a) 8
- (b) 5
- (c) -5
- (d) 5.5
- (e) -8



Q8. $122\% \text{ of } (7 \times 81 \div \overline{3 + 6}) - 12.86 = (?)^2$

- (a) 10
- (b) 9
- (c) 4
- (d) 8.5
- (e) ± 8

Q9. $25 \times 3.25 + 50.4 \div 24 = 99 - ?$

- (a) 15.65
- (b) 15.25
- (c) 16.65
- (d) 16.25
- (e) 18.35

Q10. $350\% \text{ of } ? \div 50 + 248 = 591.$

- (a) 4900
- (b) 4890
- (c) 4850
- (d) 4950
- (e) 4750

Q11. $34928 - 2591 - 14986 = ?$

- (a) 17546
- (b) 17355
- (c) 17351
- (d) 17390
- (e) None of these

Q12. $27\% \text{ of } 450 - ?\% \text{ of } 375 = 76.5$

- (a) 14
- (b) 19
- (c) 12
- (d) 15
- (e) None of these

Q13. $17\frac{2}{3} \times 1\frac{17}{106} = ?$

- (a) $20\frac{1}{2}$
- (b) $21\frac{1}{2}$
- (c) $19\frac{4}{5}$
- (d) $20\frac{4}{5}$
- (e) None of these

Q14. $(12 \times 19) + (13 \times 8) = (15 \times 14) + ?$

- (a) 124
- (b) 122
- (c) 126
- (d) 128
- (e) None of these

Q15. $7^{8.9} \div (343)^{1.7} \times (49)^{4.8} = 7^?$

- (a) 13.4
- (b) 12.8
- (c) 11.4
- (d) 9.6
- (e) None of these

Solutions

S1. Ans.(a)

Sol.

$$\begin{aligned} & \left(40\% = \frac{2}{5}\right) \text{ of } 265 + (35\% \text{ of } 180 \\ & = 180\% \text{ of } 35 = 50\% \text{ of } ? \\ & \Rightarrow 106 + \left(180\% = \frac{9}{5}\right) \text{ of } 35 = 50\% \text{ of } ? \\ & \Rightarrow 106 + 63 = 50\% \text{ of } ? \\ & \Rightarrow ? = 169 \times 2 = 338 \end{aligned}$$

S2. Ans.(e)

Sol.

$$\begin{aligned} \text{Hint: } & 460 \times 15 = 460 \times 10 + \frac{1}{2} \times 4600 - 100 \\ & = 4600 + 2300 - 100 \\ & = 6900 - 100 = 6800 \end{aligned}$$

S3. Ans.(d)

Sol.

$$5163 + 3209 = 8372 - 4018 = 4354$$

S4. Ans.(b)

Sol.

$$\begin{aligned} \frac{21}{5} \times \frac{10}{3} + ? & = 24 \\ ? & = 24 - 14 = 10 \end{aligned}$$

S5. Ans.(c)

Sol.

$$\begin{aligned} 4848 \div 24 & = 202, \\ 202 \times 11 & = 2222, 2222 - 222 = 2000 \end{aligned}$$

S6. Ans.(c)

Sol.

$$\begin{aligned} 106 + 63 & = ? \left(\frac{50+80}{100}\right) \\ \text{or } ? & = 130 \end{aligned}$$

S7. Ans.(c)

Sol.

$$\begin{aligned} ? & = \frac{20 \times 45}{100} - \left(\frac{21}{5} \times \frac{10}{3}\right) = 9 - 14 \\ \text{or } ? & = -5 \end{aligned}$$

S8. Ans.(e)

Sol.

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$$(?)^2 = \frac{122 \times (7 \times 9)}{100} - 12.86 = 64$$

or, ? = ± 8

S9. Ans. (a)

$$\text{Sol. ?} = 99 - 83.35 = 15.65$$

S10. Ans.(a)

Sol.

$$? = \frac{(591 - 248) \times 100 \times 50}{350} \text{ or } ? = 4900$$

S11. Ans.(c)

Sol.

$$? = 34928 - 2591 - 14986$$

$$? = 34928 - 17577 = 17351$$



S12. Ans.(c)

Sol.

$$27\% \text{ of } 450 - ?\% \text{ of } 375 = 76.5$$

$$\text{or, } 450 \times \frac{27}{100} - 375 \times \frac{?}{100} = 76.5$$

$$\text{or, } 375 \times \frac{?}{100} = 121.5 - 76.5 = 45$$

$$\therefore ? = \frac{45 \times 100}{375} = 12$$

S13. Ans.(a)

Sol.

$$? = 17\frac{2}{3} \times 1\frac{17}{106} = \frac{53}{3} \times \frac{123}{106}$$

$$? = \frac{41}{2} = 20\frac{1}{2}$$

S14. Ans.(b)

Sol.

$$(12 \times 19) + (13 \times 8) = (15 \times 14) + ?$$

$$\text{or, } ? + 210 = 228 + 104$$

$$\text{or, } ? = 228 + 104 - 210 = 122$$

$$\therefore ? = 122$$

S15. Ans.(a)

Sol.

$$(7)^{8.9} \div (343)^{1.7} \times (49)^{4.8} = (7)^?$$

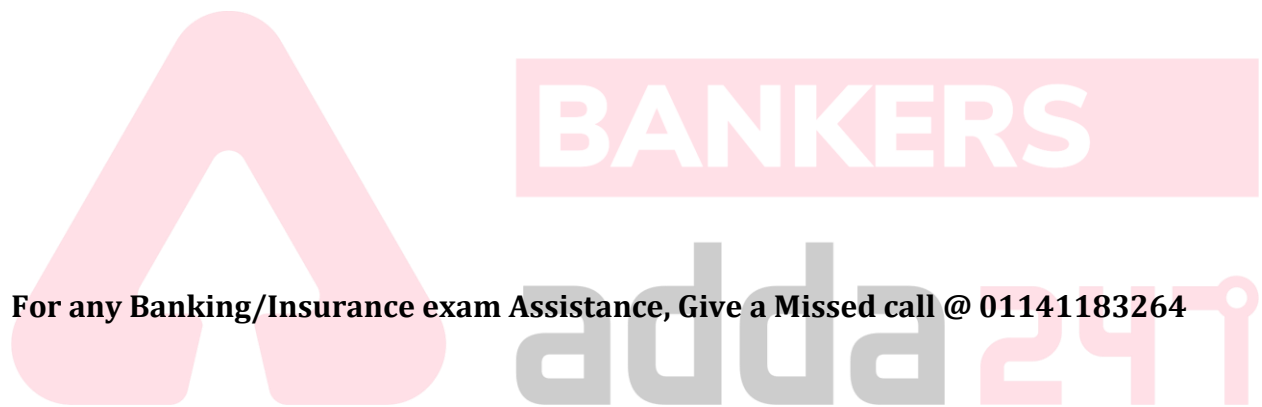
$$\text{or, } (7)^? = (7)^{8.9} \div (7^3)^{1.7} \times (7^2)^{4.8}$$

$$\text{or, } (7)^? = (7)^{8.9} \div (7)^{5.1} \times (7)^{9.6}$$

$$\text{or, } (7)^? = \frac{(7)^{8.9}}{(7)^{5.1}} \times (7)^{9.6}$$

$$\text{or, } (7)^? = (7)^{8.9+9.6-5.1} = (7)^{13.4}$$

$$\text{or, } (7)^? = (7)^{13.4} \therefore ? = 13.4$$



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