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Approximation Questions for IBPS PO Pre, SBI PO Pre, SBI Clerk Mains, IBPS Clerk Mains, IBPS SO Pre and RRB Scale I Pre Exams.

Approximation Quiz 22

Directions: What approximate value should come in the place of question mark (?) in the following questions?

1. $65 = 15\% \text{ of } 2000 \times 4\% \text{ of } \left(\frac{200}{?}\right)$

- A. 1 B. 2 C. 4 D. 6 E. 37

2. $53.002 \times 9.97 \times (257.32 \div 6.01) - (45 \times 5) + 152.23 - 25.31 = ?$

- A. 22465 B. 22692 C. 22754 D. 22851 E. 22954

3. $\frac{[(14.84\% \text{ of } 379.97) + (35.35\% \text{ of } 420.02) - \frac{2}{5} \times 575.2 + 9.8\% \text{ of } 2300.6]}{\sqrt{9.87 - 5.78}} = ?$

- A. 402 B. 202 C. 302 D. 102 E. 502

4. $\frac{1105.08}{13} - 4.8\% \text{ of } 250 - 7.9\% \text{ of } (34.9 \times 10) = ? \% \text{ of } 300$

- A. 27 B. 15 C. 24 D. 18 E. 29

5. $(\sqrt[3]{42876} \div \sqrt{48}) + (152 - 20.95 \times 10.05) - \sqrt{625.04} = ?$

- A. 5 B. -5 C. 0 D. 10 E. -10

6. $143.96 \times 2.001 - 7.976 \times 10.989 = \frac{2 \times ?}{3}$

- A. 300 B. 166 C. 200 D. 400 E. 150

7. $44.98\% \text{ of } 2021 - \frac{\sqrt{1226}}{7} - 15\% \text{ of } 419.95 = ?$

- A. 790 B. 287 C. 940 D. 841 E. 739

8. $165.01 \times 27.114 - ? \div \sqrt{0.0677} = 751.98 \times 0.251$

- A. 1000 B. 950 C. 1250 D. 1109 E. 1209

9. $(225.645 \times 16.24 \times 6400^{1/2}) \div 50 = (?)^2$

- A. 60 B. 70 C. 76 D. 80 E. 86

10. 72.5% of 3564.6 + ?% of 7512.4 = 6827.5862

A. 45

B. 56

C. 64

D. 78

E. 81

Correct Answers:

1	2	3	4	5	6	7	8	9	10
E	B	D	B	B	A	D	D	C	B

Explanations:

1.

$$65 = 15\% \text{ of } 2000 + 4\% \text{ of } \left(\frac{200}{?}\right)$$

$$\Rightarrow 65 = \frac{15}{100} \times 2000 + \frac{4}{100} \times \frac{200}{?}$$

$$\Rightarrow \frac{2400}{65} = 36.9 \approx 37$$

Hence, option E is correct.

2. $53.002 \times 9.97 \times (257.32 \div 6.01) - (45 \times 5) + 152.23 - 25.31 =$

$$? \approx 53 \times 10 \times \frac{258}{6} - (45 \times 5) + 152 - 25$$

$$\approx 530 \times 43 - 225 + 152 - 25$$

$$= 22790 - 225 + 152 - 25$$

$$= 22942 - 250 = 22692$$

Hence, option B is correct.

3.

$$\Rightarrow \frac{[(14.84\% \text{ of } 379.97) + (35.35\% \text{ of } 420.02) - \frac{2}{5} \times 575.2 + 9.8\% \text{ of } 2300.6]}{\sqrt{9.87 - 5.78}}$$

$$\Rightarrow \frac{[(15\% \text{ of } 380) + (35\% \text{ of } 420) - \frac{2}{5} \times 575 + 10\% \text{ of } 2300]}{\sqrt{10 - 6}}$$

$$\Rightarrow \frac{[(57) + (147) - 230 + 230]}{\sqrt{4}}$$

$$\Rightarrow \frac{204}{2}$$

$$\Rightarrow 102$$

Hence, option D is correct.

4.

$$\Rightarrow \frac{1105.08}{13} - 4.8\% \text{ of } 250 - 7.9\% \text{ of } (34.9 \times 10) = ? \% \text{ of } 300$$

$$\Rightarrow \frac{1105}{13} - 12 - 8\% \text{ of } 350 \approx ? \% \text{ of } 300$$

$$\Rightarrow 85 - 12 - 28 \approx ? \% \text{ of } 300$$

$$\Rightarrow \frac{300 \times ?}{100} = 45$$

$$\Rightarrow ? = \frac{4500}{300}$$

$$\Rightarrow ? = 15$$

Hence, option B is correct.

5. $(\sqrt[3]{42876} \div \sqrt{48}) + (15^2 - 20.95 \times 10.05) - \sqrt{625.04} = ?$

$$\Rightarrow (\sqrt[3]{42875} \div \sqrt{49}) + (15^2 - 21 \times 10) - \sqrt{625} \approx ?$$

$$\Rightarrow \frac{35}{7} + (225 - 210) - 25 \approx ?$$

$$\Rightarrow 5 + 15 - 25 = ?$$

$$\Rightarrow ? = -5$$

Hence, option B is correct.

6.

$$\Rightarrow 143.96 \times 2.001 - 7.976 \times 10.989 = \frac{2 \times ?}{3}$$

$$\Rightarrow 144 \times 2 - 8 \times 11 \approx \frac{2?}{3}$$

$$\Rightarrow \frac{2?}{3} \approx 288 - 88$$

$$\Rightarrow ? = 200 \times \frac{3}{2} = 300$$

Hence, option A is correct.

7.

$$44.98\% \text{ of } 2021 - \frac{\sqrt{1226}}{7} - 15\% \text{ of } 419.95 = ?$$

$$\Rightarrow 45\% \text{ of } 2020 - \frac{\sqrt{1225}}{7} - 15\% \text{ of } 420 \approx ?$$

$$\Rightarrow 909 - \frac{35}{7} - 63 = ?$$

$$\Rightarrow ? = 841$$

Hence, option D is correct.

8. $165.01 \times 27.114 - ? \div \sqrt{0.0677} = 751.98 \times 0.251$

$$\approx 165 \times 27 - ? \div \sqrt{0.0676} = 752 \times 0.25$$

$$\Rightarrow 4455 - ? \div 0.26 = 752 \times \frac{1}{4} = 188$$

$$\Rightarrow ? = (4455 - 188) \times 0.26$$

$$\Rightarrow ? = 4267 \times 0.26 = 1109.42 \approx 1109$$

Hence, option D is correct.

9. $(225.645 \times 16.24 \times 6400^{1/2}) \div 50 = (?)^2$

$$(?)^2 = (225.645 \times 16.24 \times 6400^{1/2}) \div 50$$

$$\approx \frac{(226 \times 16) \times 6400^{1/2}}{50} = \frac{226 \times 16 \times 80}{50}$$

$$\frac{226 \times 16 \times 8}{5} = 5785.6 \approx 5786$$

$$\therefore ? \approx 5786^{1/2} \approx 5776^{1/2} = 76$$

Hence option C is correct

10. $72.5\% \text{ of } 3564.6 + ?\% \text{ of } 7512.4 = 6827.5862$

$$\approx 73\% \text{ of } 3565 + ?\% \text{ of } 7512 = 6828$$

$$\Rightarrow \frac{73}{100} \times 3565 + \frac{?}{100} \times 7512 = 6828$$

$$\Rightarrow 2602.45 + \frac{7512 \times ?}{100} = 6828$$

$$\Rightarrow ? = \frac{(6828 - 2602)}{7512} \times 100$$

$$\Rightarrow ? = 56.25 \Rightarrow ? \approx 56$$

Hence, option B is correct.



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