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Approximation Questions for IBPS Clerk Pre, SBI Clerk Pre and RRB Asst. Pre Exams.

Approximation Quiz 28

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

1. $4567.988 - 321.012 + 56.789 - 23.119 = ?$

- A. 4281 B. 3245 C. 2765 D. 4128 E. 3175

2. $48.879 \div (546.122 - 538.989) \div ? = \frac{1}{(728.99)^{1/3}}$

- A. 57 B. 45 C. 73 D. 63 E. 87

3. $23.995 \% \text{ of } 299.678 - 45.3\% \text{ of } 89.9009 = ?$

- A. 32 B. 18 C. 54 D. 68 E. 72

4. $\frac{3.98}{5} \times 199.889 + \frac{233.89}{99.99} = ? - 56.99$

- A. 108 B. 118 C. 219 D. 209 E. 235

5. $44.78 \% \text{ of } 56.04 \% \text{ of } 29.99 - 45.013 \% \text{ of } 9000 = ?$

- A. - 3154 B. - 1024 C. - 6586 D. - 4042 E. - 7026

6. $\sqrt{1296.001} \times 15.99 \div 3.8 + \sqrt{1155.789} \times 5.989 = ?$

- A. 312 B. 348 C. 146 D. 245 E. 432

7. $16.67\% \text{ of } 5400.001 + 12.5\% \text{ of } 719.99 = ? - 659.98$

- A. 1820 B. 1240 C. 1650 D. 1380 E. 1150

8. $1132.975 \div 103 + 1248.1301 \div 104 + 1364.99 \div 104.99 = ?$

- A. 24 B. 20 C. 28 D. 41 E. 36

9. $(15.14)^2 - (16.99)^3 + (18.78)^3 - (8.012)^2 = ?$

- A. 1504 B. 1706 C. 1903 D. 2107 E. 1107

10. $456.897 - 233.012 - 675.119 + 789.999 = ? - 65.123$

- A. 404 B. 302 C. 606 D. 503 E. 380

Correct Answers:

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

Explanations:

- 1.** $4567.988 - 321.012 + 56.789 - 23.119 = ?$
 $\approx 4568 - 321 + 57 - 23 = ?$
 $\Rightarrow 4281 = ?$
Hence, option A is correct.

- 2.** $48.879 \div (546.122 - 538.989) \div ? = \frac{1}{(728.99)^{1/3}}$
 $\approx 49 \div (546 - 539) \div ? = \frac{1}{(729)^{1/3}}$

$$\Rightarrow \frac{49}{7 \times ?} = \frac{1}{9}$$

$$\Rightarrow \frac{7}{?} = \frac{1}{9}$$

$$\Rightarrow ? = 63$$

Hence, option D is correct.

- 3.** $23.995 \% \text{ of } 299.678 - 45.3\% \text{ of } 89.9009 = ?$
 $\approx \frac{24}{100} \times 300 - \frac{45}{100} \times 90 = ?$
 $\Rightarrow 72 - 40.5 = ?$
 $\Rightarrow 31.5 = ?$
 $\Rightarrow ? \approx 32$
Hence, option A is correct.

- 4.** $\frac{3.98}{5} \times 199.889 + \frac{233.89}{99.99} = ? - 56.99$
 $\approx \frac{4}{5} \times 200 + \frac{234}{100} + 57 = ?$
 $\Rightarrow 160 + 2.34 + 57 = ?$
 $\approx 160 + 2 + 57 = ?$
 $\Rightarrow 219 = ?$
Hence, option C is correct.

5. $44.78\% \text{ of } 56.04\% \text{ of } 29.99 - 45.013\% \text{ of } 9000 = ?$

$$\approx \frac{45}{100} \times \frac{56}{100} \times 30 - \frac{45}{100} \times 9000 = ?$$

$$\Rightarrow 7.56 - 4050 = ?$$

$$\Rightarrow -4042.44 = ?$$

$$\approx -4042 = ?$$

Hence, option D is correct.

6. $\sqrt{1296.001} \times 15.99 \div 3.8 + \sqrt{1155.789} \times 5.989 = ?$

$$\approx \sqrt{1296} \times 16 \div 4 + \sqrt{1156} \times 6 = ?$$

$$\Rightarrow 36 \times 16 \div 4 + 34 \times 6 = ?$$

$$\Rightarrow 144 + 204 = ?$$

$$\Rightarrow 348 = ?$$

Hence, option B is correct.

7. $16.67\% \text{ of } 5400.001 + 12.5\% \text{ of } 719.99 = ? - 659.98$

$$\approx \frac{1}{6} \times 5400 + \frac{1}{8} \times 720 + 660 = ?$$

$$\Rightarrow 900 + 90 + 660 = ?$$

$$\Rightarrow 1650 = ?$$

Hence, option C is correct.

8. $1132.975 \div 103 + 1248.1301 \div 104 + 1364.99 \div 104.99 = ?$

$$\approx 1133 \div 103 + 1248 \div 104 + 1365 \div 105 = ?$$

$$\Rightarrow 11 + 12 + 13 = ?$$

$$\Rightarrow 36 = ?$$

Hence, option E is correct.

9. $(15.14)^2 - (16.99)^3 + (18.78)^3 - (8.012)^2 = ?$

$$\approx (15)^2 - (17)^3 + (19)^3 - (8)^2 = ?$$

$$\Rightarrow 225 - 4913 + 6859 - 64 = ?$$

$$\Rightarrow 2107 = ?$$

Hence, option D is correct.

10. $30456.897 - 233.012 - 675.119 + 789.999 = ? - 65.123$

$$\approx 457 - 233 - 675 + 790 + 65 = ?$$

$$\Rightarrow 404 = ?$$

Hence, option A is correct.



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