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

Approximation Quiz 27

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

1. $\sqrt{578} \times \sqrt{1297} + \frac{23}{100} \times 456 = ?$

A. 434 B. 757 C. 969 D. 878 E. None of these

2. $12.15 \times 24.8 \times ? = 4556.8 + 56.2$

A. 15 B. 20 C. 25 D. 8 E. None of these

3. $\frac{4}{5} \times \frac{6}{7} \times \frac{23}{4} \times \frac{56}{5} \times 789.89 = ?$

A. 31245 B. 30986 C. 32145 D. 34886 E. None of these

4. $\frac{13456.965}{9.98} + (36.21 + \sqrt{1226.5}) = ?$

A. 1615 B. 1417 C. 1714 D. 1516 E. None of these

5. $(7.04)^2 + (6.98)^3 + 567.123 - (4.12)^4 = ?$

A. 610 B. 730 C. 703 D. 680 E. None of these

6. $\frac{1}{3} \times 44.78\%$ of $999.999 = ? - 65.32$

A. 115 B. 215 C. 196 D. 254 E. 230

7. 24.78% of 799.89 – 49.99% of 342.12 = ?

A. 40 B. 45 C. 59 D. 29 E. 35

8. 456.98 – 655.12 + 989.99 – 3.99 = ?

A. 544 B. 788 C. 724 D. 612 E. 650

9. $\sqrt{1155.98}$ % of 7000.011 + 674.99 = ?

A. 3055 B. 2550 C. 1558 D. 3125 E. 4120

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10. 33.33% of 899.99 × 50 – 429.89 = ? + 34.11

A. 10655 B. 16789 C. 12342 D. 19867 E. 14536

Correct Answers:

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

Explanations:

1.

$\sqrt{578} \times \sqrt{1297} + \frac{23}{100} \times 456 = ?$

$? = 24.01 \times 36.01 + 104.88$

$? \approx 24 \times 36 + 105$

$\therefore ? \approx 969$

Hence, option (C) is correct.

2. $12.15 \times 24.8 \times ? = 4556.8 + 56.2$

$= 12 \times 25 \times ? = 4557 + 56$

$\Rightarrow 300 \times ? = 4613$

$\Rightarrow ? = \frac{4613}{300}$

$\Rightarrow ? = 15.37$

$\Rightarrow ? \approx 15$

Hence, option (A) is correct. .

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3.

$\frac{4}{5} \times \frac{6}{7} \times \frac{23}{4} \times \frac{56}{5} \times 789.89 = ?$

$? = \frac{4}{5} \times \frac{6}{7} \times \frac{23}{4} \times \frac{56}{5} \times 789.89$

$? \approx \frac{4}{5} \times \frac{6}{7} \times \frac{23}{4} \times \frac{56}{5} \times 790$

$? = 34886.4$

$? \approx 34886$

Hence, option (D) is correct.

4.

$\frac{13456.965}{9.98} + (36.21 + \sqrt{1226.5}) = ?$

$? \approx \frac{13457}{10} + (36 + 35.02)$

$? \approx 1345.7 + 71.02$
$? \approx 1346 + 71$
$? \approx 1417$
Hence, option (B) is correct.

5. $(7.04)^2 + (6.98)^3 + 567.123 - (4.12)^4$
$? \approx (7)^2 + (7)^3 + 567 - (4)^4$
$= 49 + 343 + 567 - 256$
$= 703$
Hence, option (C) is correct.

6.

$\frac{1}{3} \times 44.78\%$ of $999.999 = ? - 65.32$

$\approx \frac{1}{3} \times \frac{45}{100} \times 1000 + 65 = ?$
$\Rightarrow 150 + 65 = ?$
$\Rightarrow 215 = ?$
Hence, option B is correct.

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7. 24.78% of 799.89 – 49.99% of 342.12 = ?
$\approx \frac{25}{100} \times 800 - \frac{50}{100} \times 342 = ?$
$\Rightarrow 200 - 171 = ?$
$\Rightarrow 29 = ?$
Hence, option D is correct.

8. $456.98 - 655.12 + 989.99 - 3.99 = ?$
$\approx 457 - 655 + 990 - 4 = ?$
$\Rightarrow 788 = ?$
Hence, option B is correct.

9. $\sqrt{1155.98}$ % of 7000.011 + 674.99 = ?

$\approx \frac{\sqrt{1156}}{100} \times 7000 + 675 = ?$

$\Rightarrow 34 \times 70 + 675 = ?$

$\Rightarrow 3055 = ?$

Hence, option A is correct.

10. 33.33% of 899.99 × 50 – 429.89 = ? + 34.11

$\approx \frac{1}{3} \times 900 \times 50 - 430 - 34 = ?$

$\Rightarrow 15000 - 430 - 34 = ?$

$\Rightarrow 14536 = ?$

Hence, option E is correct.

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