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Approximation Questions for Bank Clerk Pre and PO Pre Exams.

Approximation Quiz 3

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

1. $(51.01^2 + 36.01^2) \div 8.99 + \sqrt{?} = 460$

- A. 729 B. 27 C. 625 D. 45 E. None of these

2. $(1600.01 \div \sqrt{?} \times 54.02) \div 20.09 = 144.02$

- A. 64 B. 8 C. 30 D. 900 E. 825

3. $40.01\% \text{ of } 900.09 + \frac{7.07 \times 99.99}{14.14} + ? = 70.07\% \text{ of } 7000$

- A. 4490 B. 4940 C. 4904 D. 4094 E. 9044

4. $(7.01)^3 \times (12.01)^2 \div \sqrt{2402} = (?)^3$

- A. 7 B. 10 C. 12 D. 13 E. 17

5. $5555 \div 42 \times (19)^2 + 64.5 = ?$

- A. 45671 B. 46293 C. 44630 D. 47811 E. 46156

6. $95^{3.7} \div 95^{0.9989} = 95^?$

- A. 1.9 B. 3 C. 2.99 D. 3.6 E. 2.7

7. $\sqrt{10000} + \frac{3.001}{4.987} \text{ of } 1891.992 = ?$

- A. 2500 B. 1230 C. 1640 D. 1525 E. 2130

8. $0.0004 \div 0.0001 \times 36.000009 = ?$

- A. 0.10 B. 1.45 C. 145 D. 14.5 E. 1450

9. $137\% \text{ of } 12345 = ?$

- A. 17000 B. 15000 C. 14300 D. 900 E. 13600

10. $3739 + 164 \times 27 = ?$

- A. 105400 B. 4000 C. 8200 D. 690 E. 6300

Correct Answers:

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

Explanations:

1. $(51^2 + 36^2) + 9 + \sqrt{?} \approx 460$

$$\Rightarrow \frac{(2601 + 1296)}{9} + \sqrt{?} \approx 460$$

$$\Rightarrow 433 + \sqrt{?} = 460$$

$$\Rightarrow \sqrt{?} = 460 - 433$$

$$\Rightarrow \sqrt{?} = 27$$

$$\therefore ? = 27 \times 27 = 729.$$

Hence, option A is correct.

2.

$$\Rightarrow \left(\frac{1600}{\sqrt{?}} \times 54 \right) \times \frac{1}{2} = 144$$

$$\Rightarrow \frac{80 \times 54}{\sqrt{?}} = 144$$

$$\Rightarrow \sqrt{?} = \frac{80 \times 54}{144}$$

$$\Rightarrow \sqrt{?} = 30$$

$$\therefore ? = 900$$

Hence, option D is correct.

3.

$$\Rightarrow 40\% 900 + \frac{7 \times 100}{14.14} + ? \approx 70\% \text{ of } 7000$$

$$\Rightarrow \frac{40}{100} \times 900 + 50 + ? \approx \frac{70}{100} \times 7000$$

$$\Rightarrow 360 + 50 + ? \approx 4900$$

$$\Rightarrow ? = 4900 - 410$$

$$\therefore ? = 4490$$

Hence, option A is correct.

4.

$$\Rightarrow (?)^3 = \frac{(7)^3 \times (12)^2}{\sqrt{2401}}$$

$$\Rightarrow (?)^3 \approx \frac{343 \times 144}{49}$$

$$\Rightarrow (?)^3 \approx 1008$$

$$\Rightarrow (?)^3 \approx (10)^3$$

$$\therefore ? = 10$$

Hence, option B is correct.

5.

$$5555 \times \frac{1}{42} \times (19)^2 + 64.5$$

$$= 47746.546 + 64.5$$

$$= 47811.046 \approx 47811.$$

Hence, option D is correct.

6. $95^{3.7} \div 95^{0.9989} = 95^?$

or, $95^? = 95^{3.7 - 0.9989}$

or, $95^? \approx 95^{2.7}$

or, $? = 2.70$

Hence, option E is correct.

7. $\sqrt{10000} + \frac{3.001}{4.987}$ of 1891.992 = ?

or, $? \approx 100 + \frac{3}{5}$ of 1900 = 100 + 1140 \approx 1230

Hence, option B is correct.

8. $? = 0.0004 \div 0.0001 \times 36.000009$

$$= 4 \times 36.000009 \approx 145$$

Hence, option C is correct.

9. $? = 137\%$ of 12345

$$= (100 + 37)\% \text{ of } 12345$$

$$\approx 12345 + 4570 \approx 17000$$

Hence, option A is correct.

10. $? = 3739 + 164 \times 27$

$$= 3739 + 4428 \approx 8200$$

Hence, option C is correct.



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