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Approximation Questions for Bank Clerk Pre Exams.

Approximation Quiz 15

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

1. $(127.998 \times 10.012 \times 6400^{1/2}) \div 100 = (?)^2$

- A. 34 B. 49 C. 32 D. 28 E. 44

2. $33\% \text{ of } 810 - 654\% \text{ of } 27 = ?$

- A. 85 B. 90 C. 95 D. 100 E. 80

3. $11.07 \times 81 + 132.04 = ?^2$

- A. 32 B. 42 C. 22 D. 12 E. 52

4. $16.97 \times \sqrt{1088.9} + 187 = ?^2 + 739$

- A. 4 B. 9 C. 3 D. 10 E. 12

5. $[(28 + 48) \times (78 + 58)] - (18)^2 = ?$

- A. 10012 B. 10112 C. 10002 D. 10014 E. 100215

6. $7.69\% \text{ of } 1755 = ?^2 \div \sqrt{255} \times 3.9 - \sqrt[3]{729}$

- A. 12 B. 36 C. 18 D. 24 E. 28

7. $(11.98)^2 + 285.96 + (13.03)^2 = ? + 4004 \div 14$

- A. 26 B. 126 C. 236 D. 336 E. 313

8. $11.25\% \text{ of } 290 + 43.9\% \text{ of } 160 = ?^{1/2} \% \text{ of } 300$

- A. 1156 B. 1296 C. 1225 D. 1440 E. 1180

9. $(2445.98 - 608.06 + 208.18) = ?^2 \div 144 + 890$

- A. 250 B. 350 C. 300 D. 400 E. 500

10. $414 + \sqrt{324} \div 24 \times 456 = ?^2 - \sqrt{7225}$

- A. 20 B. 50 C. 40 D. 30 E. 60

Correct Answers:

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

Explanations:

1. $(?)^2 = (127.998 \times 10.012 \times 6400^{1/2}) \div 100$

$$\approx \frac{(128 \times 10) \times 6400^{1/2}}{100} = \frac{128 \times 10 \times 80}{100}$$

$$= 128 \times 8 = 1024$$

$$\therefore ? \approx 1024^{1/2} = 32$$

Hence option C is correct

2. $33\% \text{ of } 810 - 654\% \text{ of } 27 = ?$

$$26730 \div 100 - 17658 \div 100 = ?$$

$$267.3 - 176.58 = ?$$

$$267 - 177 = ?$$

$$? = 90$$

Hence, option B is correct.

3. $11.07 \times 81 + 132.04 = ?^2$

$$11 \times 81 + 132 = ?^2$$

$$?^2 = 891 + 132$$

$$?^2 = 1023$$

$$? = 31.98 \approx 32$$

Hence, option A is correct.

4. $16.97 \times \sqrt{1088.9} + 187 = ?^2 + 739$

$$17 \times \sqrt{1089} + 187 = ?^2 + 739$$

$$17 \times 33 + 187 = ?^2 + 739$$

$$561 + 187 = ?^2 + 739$$

$$748 - 739 = ?^2$$

$$?^2 = 9$$

$$? = 3$$

Hence, option C is correct.

- 5.** Follow BODMAS rule to solve this question, as per the order given below,
 Step - 1 - 'Brackets' must be solved first, and in the bracket, the BODMAS rule must be followed,
 Step - 2 - Any mathematical 'Of' or 'Exponent' must be solved next,
 Step - 3 - Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,
 Step - 4 - Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

$$[(28 + 48) \times (78 + 58)] - (18)^2 = ?$$

$$\Rightarrow 76 \times 136 - 18^2 = ?$$

$$\Rightarrow 10336 - 324 = ?$$

$$\Rightarrow ? = 10012$$

Hence option A is correct.

6. $7.69\% \text{ of } 1755 = ?^2 \div \sqrt{255} \times 3.9 - \sqrt[3]{729}$

$$\approx 1755 \times \frac{1}{13} = ?^2 \div \sqrt{256} \times 4 - 9$$

$$135 = ?^2 \div 16 \times 4 - 9$$

$$135 + 9 = ?^2 \div 4$$

$$144 \times 4 = ?^2$$

$$? = 12 \times 2 = 24$$

Hence, option D is correct.

7. $(11.98)^2 + 285.96 + (13.03)^2 = ? + 4004 \div 14$

$$\approx 12^2 + 286 + 13^2 = ? + 286$$

$$144 + 286 + 169 = ? + 286$$

$$? = 144 + 169 = 313$$

Hence, option E is correct.

8. $11.25\% \text{ of } 290 + 43.9\% \text{ of } 160 = ?^{1/2}\% \text{ of } 300$

$$290 \times 11\% + 160 \times 44\% = ?^{1/2} \times 3$$

$$31.9 + 70.4 = ?^{1/2} \times 3$$

$$32 + 70 = ?^{1/2} \times 3$$

$$?^{1/2} \times 3 = 102$$

$$?^{1/2} = 34$$

$$? = 1156$$

Hence, option A is correct.

9. $(2445.98 - 608.06 + 208.18) = ?^2 \div 144 + 890$

$$\approx (2446 - 608 + 208) = ?^2 \div 144 + 890$$

$$(2654 - 608) = ?^2 \div 144 + 890$$

$$2046 - 890 = ?^2 \div 144$$

$$1156 \times 144 = ?^2$$

$$? = 34 \times 12 = 408 \approx 400$$

Hence, option D is correct.

10. $414 + \sqrt{324} \div 24 \times 456 = ?^2 - \sqrt{7225}$

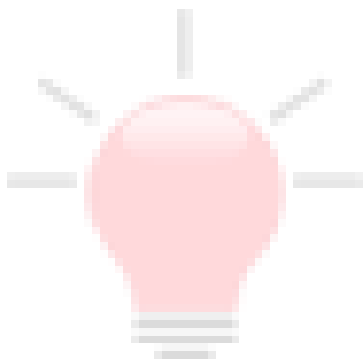
$$414 + 18 \times 19 = ?^2 - 85$$

$$414 + 342 + 85 = ?^2$$

$$?^2 = 841$$

$$? = 29 \approx 30$$

Hence, option D is correct.



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