Approximation Questions for Bank Clerk Pre Exams.

Approximation Quiz 17

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

1. $38.98 \times \sqrt{195.98} \div 41.87 = ?^{1/2} - 84.03 \times 7.06 \div \sqrt{441.02}$

A. 1520 B. 1590 C. 1680 D. 1630 E. 1600

2. $18.006 \times ? \times 27.987 + 28\% \text{ of } 640 + 25\% \text{ of } 830 = 8954.784$

A. 17 B. 18 C. 19 D. 20 E. 21

3. $\frac{156.8 \times 5 - \sqrt[3]{10648}}{14 \times 12 + 132 + (?)^2} = 2$

A. 9 B. 8 C. 7 D. 6 E. 5

4. $\frac{\frac{5.6}{3.8} \times \frac{11.4}{8.4}}{\frac{35.5}{5} \times \frac{25.5}{5}}\% \text{ of } 10863 = ?$

A. 3.5 B. 2.2 C. 6.5 D. 6.0 E. 5.5

5. $9723.88 \div 67.94 + \frac{47.08 \times 4.02}{6.13} = ?^2 - 22$

A. 10 B. 25 C. 6 D. 14 E. 20

6. $42.87\% \text{ of } 354 - 30.34\% \text{ of } 658 = ?^2 - 487 - \sqrt{1369}$

A. 28 B. 16 C. 22 D. 25 E 30

7. $? \times \sqrt{1521} = 168.9 \div 486 \times \sqrt{324.05} \div (? \div 27)$

A. 2 B. 5 C. 10 D. 14 E. 19

8. $42.85\% \text{ of } 2401 \div 49.03 + \sqrt{484.02} = ?^{1/2}$

A. 1790 B. 1825 C. 1850 D. 1880 E. 1905

9. $(2745.98 + 2741.89 - 4244.03) \div \sqrt{4} = (?^3 - 953) \div 2$

A. 20 B. 16 C. 24 D. 13 E. 11

10. $?^{1/2} \div \sqrt{1681} \times 7 \times 12 \div \sqrt{196} \times 369 = 1026.08$

A. 144 B. 361 C. 225 D. 625 E. 100

Correct Answers:

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

Explanations:

1. $38.98 \times \sqrt{195.98} \div 41.87 = ?^{1/2} - 84.03 \times 7.06 \div \sqrt{441.02}$

$\approx 39 \times \sqrt{196} \div 42 = ?^{1/2} - 84 \times 7 \div \sqrt{441}$

$39 \times 14 \div 42 = ?^{1/2} - 84 \times 7 \div 21$

$13 = ?^{1/2} - 28$

$13 + 28 = ?^{1/2}$

$41 = ?^{1/2}$

$? = 1681 \approx 1680$

Hence, option C is correct.

2. $18.006 \times ? \times 27.987 + 28\%$ of $640 + 25\%$ of $830 = 8954.784$

$18 \times 28 \times ? + 179.2 + 207.5 = 8954.784$

$504 \times ? = 8954.784 - 386.7$

$504 \times ? = 8568.084$

$? = \frac{8568.084}{504}$

$? = 17$

Hence, option (A) is correct.

3. $\frac{156.8 \times 5 - \sqrt[3]{10648}}{14 \times 12 + 132 + (?)^2} = 2$

$\frac{784 - 22}{168 + 132 + (?)^2} = 2$

$\frac{762}{300 + (?)^2} = ?$

$762 = 2 \times (300 + (?)^2)$

$762 = 600 + 2 \times (?)^2$

$2 \times (?)^2 = 162$

$(?)^2 = 81$

$(?)^2 = 9^2$

$? = 9$

Hence, option (A) is correct.

4.

$\frac{\frac{5.6}{3.8} \times \frac{11.4}{8.4}}{\frac{35.5}{5} \times \frac{25.5}{5}}$ % of 10863 = ?

$\frac{5.6 \times 11.4 \times 5 \times 5}{3.8 \times 8.4 \times 35.5 \times 25.5}$ % of 10863 = ?

$\frac{2.8 \times 2 \times 3.8 \times 3 \times 5 \times 5}{3.8 \times 2.8 \times 3 \times 7.1 \times 5 \times 5.1 \times 5}$ % of 10863 = ?

$\frac{2}{7.1 \times 5.1}$ % of 10863 = ?

$\frac{200}{3621}$ % of 10863 = ?

$? = 10863 \times \frac{200}{3621} \times \frac{1}{100}$

$? = 10863 \times \frac{2}{3621}$

$? = (3 \times 3621) \times \frac{2}{3621}$

$\frac{3 \times 3621 \times 2}{3621}$

$? = 3 \times 2 = 6$

Hence, option (D) is correct.

5. $9723.88 \div 67.94 + 47.08 \times \frac{4.02}{6.13} = ?^2 - 22$

$?^2 = 9724 \div 68 + 47 \times \frac{4}{6} + 22$

$?^2 = 143 + 31.33 + 22$

$?^2 = 165 + 31$

$?^2 = 196$

$? = 14$

Hence, option D is correct.

6. 42.87% of 354 – 30.34% of 658 = $?^2 - 487 - \sqrt{1369}$

43% of 354 – 30% of 658 = $?^2 - 487 - 37$

152.22 – 197.4 + 487 + 37 = $?^2$

$?^2 = 152 - 197 + 487 + 37$

$?^2 = 479$

$? = 21.88 \approx 22$

Hence, option C is correct.

7. $? \times \sqrt{1521} = 168.9 \div 486 \times \sqrt{324.05} \div (? \div 27)$

$? \times 39 = 169 \div 486 \times \sqrt{324} \div ? \times 27$

$?^2 = 169 \div 486 \times 18 \times 27 \div 39$

$?^2 = \frac{13}{3}$

$?^2 = 4.33 \approx 4$

$? = 2$

Hence, option A is correct.

8. 42.85% of 2401 ÷ 49.03 + $\sqrt{484.02}$ = $?^{1/2}$

2401 × 3/7 ÷ 49 + $\sqrt{484}$ = $?^{1/2}$

343 × 3 ÷ 49 + 22 = $?^{1/2}$

21 + 22 = $?^{1/2}$

$?^{1/2} = 43$

$? = 1849 \approx 1850$

Hence, option C is correct.

9. (2745.98 + 2741.89 – 4244.03) ÷ $\sqrt{4}$ = ($?^3$ – 953) ÷ 2

(2746 + 2742 – 4244) ÷ 2 = ($?^3$ – 953) ÷ 2

1244 + 953 = $?^3$

$?^3 = 2197$

$? = 13$

Hence, option D is correct.

10. $?^{1/2} \div \sqrt{1681} \times 7 \times 12 \div \sqrt{196} \times 369 = 1026.08$

$?^{1/2} \div 41 \times 7 \times 12 \div 14 \times 369 = 1026$

$?^{1/2} \times 54 = 1026$

$?^{1/2} = \frac{1026}{54}$

$?^{1/2} = 19$

$? = 361$

Hence, option B is correct.