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Approximation Questions for SBI PO Pre, IBPS PO Pre , SBI Clerk Mains and IBPS Clerk Mains Exams.

Approximation Quiz 35

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

1. $6575 \div 74.95 + \sqrt{630} \times 14.83 = ?$

- A. 550 B. 463 C. 320 D. 256 E. 680

2. $\sqrt{(29.98\% \text{ of } 779.95) + (25.05\% \text{ of } 219.97)} = ?$

- A. 28 B. 17 C. 35 D. 24 E. 39

3. $198.05 \times 126.05 \div 76.87 + 178.44 - 294.77 = ?$

- A. 324 B. 315 C. 295 D. 154 E. 207

4. $0.5\% \text{ of } 4789.823 + 0.7\% \text{ of } 330.732 = ?$

- A. 42 B. 26 C. 35 D. 20 E. 17

5. $(26.912)^2 \times 6.001 \div 6.12 + (7.03)^3 + 40.02 = ? - 210.75$

- A. 1685 B. 1158 C. 1323 D. 1925 E. 1485

6. $54.997 \times 47.993 - ? \% \text{ of } 8001.009 = (11.899)^3 + 67.896 \times 4.003$

- A. 11.5 B. 8 C. 7 D. 10.5 E. 22

7. $\frac{354.08 + ?}{31.98} + 124.89 \% \text{ of } 64.03 - (361.06)^{1/2} = (1000000.11)^{1/3}$

- A. 980 B. 688 C. 872 D. 426 E. 894

8. $\frac{4589.79}{?} + (24.89)^2 - 36.89 \% \text{ of } 4798.98 + 104.87 = (21.86)^2$

- A. 6 B. 12 C. 11 D. 3 E. None of these

9. $44.03 \times 24.98 + 48.03 \times 14.99 + ? = 32.07 \% \text{ of } 6000.08$

- A. 76 B. 90 C. 100 D. 110 E. 120

10. $? \% \text{ of } 699.98 + (20.91)^2 - (3843.95)^{1/2} = (17.93)^3$

- A. 972 B. 439 C. 853 D. 630 E. 779

Correct Answers:

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

Explanations:

1. $6575 \div 74.95 + \sqrt{630 \times 14.83} = ?$

$$88 + 25 \times 15 \approx ?$$

$$? = 463$$

Hence, option B is correct.

2. $\sqrt{(29.98\% \text{ of } 779.95) + (25.05\% \text{ of } 219.97)} = ?$

$$? \approx \sqrt{(30\% \text{ of } 780) + (25\% \text{ of } 220)}$$

$$? = \sqrt{234 + 55}$$

$$? = \sqrt{289}$$

$$? = 17$$

Hence, option D is correct.

3. $? \approx 198 \times 126 \div 77 + 178 - 295$

$$? = 198 \times 126 \times (1/77) + 178 - 295$$

$$? = 324 + 178 - 295$$

$$? = 207$$

Hence, option E is correct.

4. $0.5\% \text{ of } 4789.823 + 0.7\% \text{ of } 330.732 = ?$

$$\text{or, } ? \approx \frac{4790}{200} + \frac{331}{100} \times (0.7) \approx 24 + 2 = 26$$

Hence, option B is correct.

5. $(26.912)^2 \times 6.001 \div 6.12 + (7.03)^3 + 40.02 = ? - 210.75$

Or, $(27)^2 \times 6 \times \frac{1}{6} + (7)^3 + 40 \approx ? - 211$

or, $? \approx 729 + 343 + 40 + 211 = 1323$

Hence, option C is correct.

6. $54.997 \times 47.993 - ? \% \text{ of } 8001.009 = (11.899)^3 + 67.896 \times 4.003$

$55 \times 48 - \frac{?}{100} \times 8000 \approx (12)^3 + 68 \times 4$

$\frac{?}{100} \times 8000 = 2640 - 1728 - 272$

$? = \frac{640 \times 100}{8000} = 8$

Hence, option B is correct.

7.

$\frac{(354.08 + ?)}{31.98} + 124.89 \% \text{ of } 64.03 - (361.06)^{1/2} = (1000000.11)^{1/3}$

$\frac{354 + ?}{32} + \frac{125}{100} \times 64 - (361)^{1/2} \approx (1000000)^{1/3}$

$\frac{354 + ?}{32} = 100 + 19 - 80$

$(354 + ?) = 39 \times 32$

$? = 1248 - 354 = 894$

Hence, option E is correct.

8.

$\frac{(4589.79)}{?} + (24.89)^2 - 36.89 \% \text{ of } 4798.98 + 104.87 = (21.86)^2$

$\frac{4590}{?} + (25)^2 - \frac{37 \times 4800}{100} + 105 = (22)^2$

$\frac{4590}{?} + 625 - 1776 + 105 = 484$

$\frac{4590}{?} = (484 + 1776 - 730)$

$? = \frac{4590}{1530} = 3$

Hence, option D is correct.

9. $44.03 \times 24.98 + 48.03 \times 14.99 + ? = 32.07 \% \text{ of } 6000.08$

$$44 \times 25 + 48 \times 15 + ? = \frac{32}{100} \text{ of } 6000$$

$$1100 + 720 + ? = 1920$$

$$? = 1920 - 1820 = 100$$

Hence, option C is correct.

10. $? \% \text{ of } 699.98 + (20.91)^2 - (3843.95)^{1/2} = (17.93)^3$

$$\frac{?}{100} \times 700 + (21)^2 - (3844)^{1/2} = (18)^3$$

$$\frac{?}{100} \times 700 + 441 - 62 = 5832$$

$$\frac{?}{100} \times 700 = 5832 - 441 + 62$$

$$? = \frac{5453}{7} = 779$$

Hence, option E is correct.

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