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

Approximation Quiz 33

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

1. $(39.99\% \text{ of } \frac{2}{5} + 60.05\% \text{ of } \frac{1}{5}) \times 10^3 = ?$

- A. 369 B. - 369 C. 279 D. - 279 E. - 159

2. $12.99^2 + \sqrt{?^2} = 11.10^2 + 14.009^2$

- A. 29929 B. 383 C. 146689 D. 148 E. 293

3. $(22.99 + 17.01) \div 1.998 \times 3.997 - 41.998 + 644.199 = ?$

- A. 798 B. 542 C. 682 D. 745 E. 762

4. $(0.000729)^{1/6} \text{ of } 30^2 \div 3 + 15^2 = ?$

- A. 1125 B. 315 C. 9225 D. 875 E. 1158

5. $1 \frac{1}{16.99} \text{ of } 50.988 + ?\% \text{ of } 5500 = 41.9922 + 49.99$

- A. 64 B. 82 C. 32 D. 52 E. 62

6. $936.045 \div 13.063 \div 4.033 \times 11.996 - 12.998 \times 12.98 = ?$

- A. 47 B. 159 C. 281 D. 137 E. 198

7. $17.992^2 + 21.102^2 = 1.99^7 + ?$

- A. 458 B. 637 C. 735 D. 883 E. 747

8. $\sqrt{?} \times 15.083 + 24.988\% \text{ of } 640.032 = 9.999^3$

- A. 384 B. 3644 C. 3136 D. 2304 E. 3364

9. $555 \div 18.5 + 10^5 \div 2^5 = ?$

- A. 3265 B. 3145 C. 3155 D. 3385 E. 3398

10. $443.994 \div 16.001 \div 36.99 \times 12.02 = ?$

- A. 1 B. 9 C. 81 D. 125 E. 243

Correct Answers:

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

Explanations:

1.

$$(39.99\% \text{ of } \frac{2}{5} + 60.05\% \text{ of } \frac{1}{5}) \times 10^3 + ? = 1$$

$$(40\% \text{ of } \frac{2}{5} + 60\% \text{ of } \frac{1}{5}) \times 1000 + ? \approx 1$$

$$? = 1 - (0.16 + 0.12) \times 1000$$

$$? = 1 - 0.28 \times 1000 = 1 - 280 = -279$$

Hence, option D is correct.

2.

$$12.99^2 + \sqrt{?^2} = 11.10^2 + 14.009^2$$

$$13^2 + ? \approx 11^2 + 14^2$$

$$? = (121 + 196) - 169$$

$$? = 148$$

Hence, option D is correct.

3.

$$(22.99 + 17.01) \div 1.998 \times 3.997 - 41.998 + 644.199 = ?$$

$$\frac{23 + 17}{2} \times 4 - 42 + 644 \approx ?$$

$$? = 20 \times 4 - 42 + 644$$

$$? = 80 + 644 - 42 = 724 - 42 = 682$$

Hence, option C is correct.

4.

$$(0.000729)^{1/6} \text{ of } 30^2 \div 3 + 15^2 = ?$$

$$? \approx 0.3 \times 900 \div 3 + 225$$

$$? = \frac{270}{3} + 225$$

$$? = 90 + 225 = 315$$

Hence, option B is correct.

5.

$$1 \frac{1}{16.99} \text{ of } 50.988 + ?\% \text{ of } 5500 = 41.992^2 + 49.99$$

$$1 \frac{1}{17} \text{ of } 51 + ?\% \text{ of } 5500 \approx 42^2 + 50$$

$$18 \times \frac{51}{17} + ?\% \text{ of } 5500 \approx 1764 + 50$$

$$54 + ?\% \text{ of } 5500 = 1814$$

$$?\% \text{ of } 5500 = 1814 - 54 = 1760$$

$$? = 100 \times \frac{1760}{5500} = 32$$

Hence, option C is correct.

6. $936.045 \div 13.063 \div 4.033 \times 11.996 - 12.998 \times 12.98 = ?$

$$? \approx 936 \div 13 \div 4 \times 12 - 13 \times 13$$

$$? = \frac{936}{13 \times 4} \times 12 - 13 \times 13$$

$$? = 18 \times 12 - 13 \times 13$$

$$? = 216 - 169 = 47$$

Hence, option A is correct.

7. $17.992^2 + 21.102^2 = 1.99^7 + ?$

$$18^2 + 21^2 \approx 2^7 + ?$$

$$? = 324 + 441 - 128 = 637$$

Hence, option B is correct.

8. $\sqrt{?} \times 15.083 + 24.988\% \text{ of } 640.032 = 9.999^3$

$$?^{1/2} \times 15 + 25\% \text{ of } 640 \approx 10^3$$

$$?^{1/2} \times 15 + 160 = 1000$$

$$?^{1/2} \times 15 = 840$$

$$?^{1/2} = 56$$

$$? = 56^2 = 3136$$

Hence, option C is correct.

9. $555 \div 18.5 + 10^5 \div 2^5 = ?$

$$\frac{555}{18.5} + \frac{10^5}{2^5} = ?$$

$$? = 30 + 5^5$$

$$? = 3125 + 30$$

$$? = 3155$$

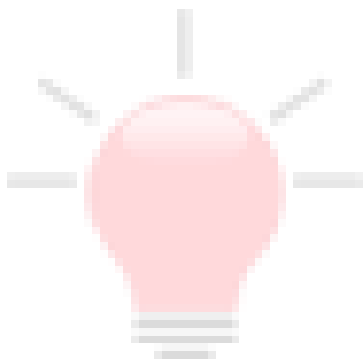
Hence, option C is correct.

10. $443.994 \div 16.001 \div 36.99 \times 12.02 = ?$

$$? \approx \frac{444}{16 \times 37} \times 12$$

$$? = 3 \times 3 = 9$$

Hence, option B is correct.



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