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Approximations Questions for IBPS Clerk, IBPS PO Pre, IBPS SO Pre, SBI Clerk, SBI PO Pre, RRB Scale I Pre

Approximations Quiz 24

Directions: Find the approximate value which should come in place of Question mark (?) in the following question.

1. $27.003 \times 4.99 \times (145.003 \div 28.97) - (12.001 \times 3.94) + 127.03 - 29.14 = ?$

A. 678 B. 725 C. 789

D. 925 E. 806

2. $20.01 \times \sqrt{1024} + 159 = ?^2 + 536$

A. 10 B. 16 C. 21

D. 26 E. 35

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3. 25.1% of $5902 = ? \times 55.96 \div 3.82 \times 20$

A. 1 B. 2 C. 3

D. 5 E. 7

4. 53.15% of $426 - 30.45\%$ of $745 = ?^2 - 512 - \sqrt{1600}$

A. 08 B. 15 C. 24

D. 27 E. 60

5. $27.031 \times 328.001 + 37.081 - ? = 2628.31 + 37.035 - 36.745 \times 4.125$

A. 5008 B. 6302 C. 6376

D. 5306 E. 6478

6. $1535\ \sqrt{35} + 20\%$ of $? - 124.15$ of $\frac{1}{9} = 6960$

A. 10490 B. – 10490 C. 15490

D. 10590 E, 10450

7. $\frac{162.13 \times 9 - (10648)}{16 \times 14 + 245 + (?)^2} = 5$

A. 13 B. 16 C. 19

D. 22 E. 25

8. $\sqrt{3026.001} + (12.969)^2 = ? \div \frac{6}{23.892}$

A. 42 B. 45 C. 56

D. 62 D. 67

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9. $\frac{25.12 \times 152.94 + 5142 - 6336.83}{\sqrt{360}} = ?$

A. 139 B. 119 C. 209

D. 154 E. 148

10. $\frac{82.958 \times 22.001 - 16.04 \times 3.11}{(9.002)^2 - \sqrt{145 + (16.997)^2}} = ?$

A. 1 B. 3 C. 9

D. 7 E. 5

Correct answers:

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

Explanations:

1.

$? \approx 27 \times 5 \times \frac{145}{29} - 12 \times 4 + 127 - 29$

$\approx 135 \times 5 - 48 + 127 - 29$

$= 675 - 48 + 127 - 29$

$= 802 - 77 = 725$

Hence, option B is correct.

2.

$20.01 \times \sqrt{1024} + 159 = ?^2 + 536$

$20 \times \sqrt{1024} + 159 = ?^2 + 536$

$20 \times 32 + 159 = ?^2 + 536$

$640 + 159 = ?^2 + 536$

$799 - 536 = ?^2$

$?^2 = 263$

$? = 16.21 \approx 16$

Hence, option B is correct.

3.

25.1 % of 5902 = ? × 55.96 ÷ 3.82 ×20

$= 5902 \times \frac{1}{4} = ? \times 56 \div 4 \times 20$

1476 ÷ 14 ÷ 20 = ?

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? = 5.27 ≈ 5

Hence, option D is correct.

4.

53.15% of 426 – 30.45% of 745 = $?^2$ – 512 – $\sqrt{1600}$

53% of 426 – 30% of 745 = $?^2$ – 512 – 40

225.78 – 223.5 + 512 + 40 = $?^2$

$?^2$ = 226 – 223 + 512 + 40

$?^2$ = 555

$?^2$ = 23.55 ≈ 24

Hence. option C is correct.

5.

27 × 328 + 37 – ? ≈ 2628 + 37 – 37 × 4

Or, ? ≈ (27 × 328 + 37) – (2628 + 37 – 37 × 4) = (8856 + 37) – (2665 – 148)

= 8893 – 2517 = 6376

Hence, option C is correct.

6.

1535$\sqrt{35}$ + 20% of ? – 124.15 of $\frac{1}{9}$ = 6960

or, 1535 × 5.916 + ? × $\frac{1}{5}$ – 124 × $\frac{1}{9}$ = 6960

or, 9071.85 + $\frac{?}{5}$ – 13.77 = 6960

Or, ≈ 9072 + $\frac{?}{5}$ – 14 = 6960

Or, $\frac{?}{5}$ ≈ 6960 + 14 – 9072 = 6974 – 9072

Or, $\frac{?}{5} = -2098$

Or, $? = -2098 \times 5 = -10490$

Hence, opton B is correct.

7.

$\frac{162.13 \times 9 - (\sqrt[3]{10648})}{16 \times 14 + 245 + (?)^2} = 5$

$= \frac{1458 - 22}{224 + 245 + (?)^2} = 5$

$= \frac{1436}{469 + (?)^2} = 5$

$1436 = 5 \times (469 + (?)^2)$

$1436 = 2345 + 5 \times (?)^2$

$5 \times (?)^2 = -909$

$(?)^2 \approx -181$

$(?)^2 = 13.45^2$

$(?) \approx 13$

Hence, option A is correct

8.

$(\sqrt{3026.001}) + (12.969)^2 = ? \div \frac{6}{23.892}$

Or, $? \approx (\sqrt{3025}) + (13)^2 \times \frac{6}{24}$

Or, $? = (55 + 169) \times \frac{6}{24}$

$\Rightarrow \frac{224 \times 6}{24} = 56$

Hence, option C is correct

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9.

$$\frac{25.12 \times 152.94 + 5142 - 6336.83}{\sqrt{360}} = ?$$

$$? = \frac{25.12 \times 152.64 + 5142 - 6336.83}{\sqrt{361}}$$

$$\approx \frac{25 \times 153 + 5142 - 6337}{\sqrt{360}}$$

$$\approx \frac{3825 + 5142 - 6337}{19}$$

$$= \frac{8967 - 6337}{19}$$

$$= \frac{7630}{19}$$

$$= 138.42 \approx 139$$

Hence, option A is correct.

10.

$$\frac{82.958 \times 22.001 - 16.04 \times 3.11}{(9.002)^2 - \sqrt{145} + (16.997)^2} = ?$$

$$= ? \frac{82.958 \times 22.001 - 16.04 \times 3.11}{(9.002)^2 - \sqrt{145} + (16.997)^2}$$

$$\text{or, } ? \approx \frac{83 \times 22 - 16 \times 3}{81 - \sqrt{144} + 289} = \frac{1826 - 48}{81 - 12 + 289}$$

$$= \frac{1778}{370 - 12} = \frac{1778}{358} = 4.966 \approx 5$$

Hence, option E is correct.

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