



Approximation Questions for SBI PO 2020 PDF

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Instructions

For the following questions answer them individually

Question 1

What approximate value should come in place of question mark(?) in the following equation ?

$$9876 \div 24.96 + 215.005 - ? = 309.99$$

- A 395
- B 295
- C 300
- D 315
- E 310

Answer: C

Explanation:

Let x be the value of the unknown number.

$$x = \frac{9876}{24.96} + 215.005 - 309.99$$

$$= 395.67 - 94.985 \approx 300$$

Question 2

What approximate value should come in place of the question mark (?) in the following equation ?

$$695.95 \div 29.07 \times ? + 40.25 = 399.99$$

- A 14
- B 17
- C 12
- D 16
- E 15

Answer: E

Explanation:

Let the number to replace the question mark be equal to X

$$\text{Hence, } 695.95 \div 29.07 \times X + 40.25 = 399.99$$

$$399.99 \approx 400 \text{ and } 695.95 \approx 696 \text{ and } 29.07 \approx 29$$

$$\text{So, the expression looks like } 696 \div 29 \times X + 40 = 400$$

$$\text{Hence, } 24 \times X = 360 \text{ or } X = 15$$

Question 3

What approximate value should come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value)

$$9980 \div 49 \times (4.9)^2 - 1130 = ?$$

- A 3800
- B 4500
- C 2600

D 3000

E 4080

Answer: A

Explanation:

Since an approximate answer is sufficient, you can rewrite the question as $10000 \div 50 \times 5^2 - 1130$

Following BDMAS rule the result is 3870.

The nearest value is 3800.

Hence Option A is the correct answer.

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Question 4

What approximate value should come in place of question mark(?) in the following equation ?

$$9876 \div 24.96 + 215.005 - ? = 309.99$$

A 395

B 295

C 300

D 315

E 310

Answer: C

Explanation:

Let x be the value of the unknown number.

$$x = \frac{9876}{24.96} + 215.005 - 309.99$$

$$= 395.67 - 94.985 \approx 300$$

Question 5

What approximate value should come in place of the question mark (?) in the following equation ?

$$29.38 \times 37.05 \div ? + 7.45 = 100.5$$

A 10

B 13

C 14.5

D 1.35

E 12

Answer: E

Explanation:

Let the number to come in place of the question mark be equal to X

$$\text{So, } 29.38 \times 37.05 \div X + 7.45 = 100.5$$

$$\text{Or, } 29.38 \times 37.05 \div X = 93.05$$

$$\text{So, } X = \frac{29.38 \times 37.05}{93.05} = 11.69 \approx 12$$

Question 6

$$21 + 3.9 \times 2.9 + 8.99 = ?$$

- A 42
- B 46
- C 44
- D 34
- E 36

Answer: A

Explanation:

$$\begin{aligned} & 21 + 4 \times 3 + 9 \\ & = 42 \end{aligned}$$

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Question 7

$$22.9889 + 0.002 \div ? = 23$$

- A 23
- B 1
- C 23^2
- D 24
- E None of these

Answer: B

Explanation:

$$\begin{aligned} & 22.9889 + 0.002 \div 1 \\ & = 22.9889 + 0.002 \\ & = 22.9891 \approx 23 \end{aligned}$$

Question 8

$$5.26\% \text{ of } 95 + 5.88\% \text{ of } 170 = ?$$

- A 16
- B 15
- C 14
- D 13
- E 17

Answer: B

Explanation:

$$5 + 10 = 15 \quad (5.26\% = 1/19 \text{ and } 5.88\% = 1/17)$$

Question 9

20% of 200 + 7.14% of 140 = ?

- A 30
- B 40
- C 50
- D 60
- E 70

Answer: C

Explanation:

$40 + 10 = 50$ ($7.14\% = 1/14$)

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Question 10

16.66% of 600 + 9.09% of 110 = ?

- A 110
- B 120
- C 130
- D 140
- E 150

Answer: A

Explanation:

$100 + 10 = 110$ ($16.66\% = 1/6$ and $9.09\% = 1/11$)

Question 11

11.11% of 90 + 8.33% of 120 = ?

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

Answer: A

Explanation:

$10 + 10 = 20$ ($11.11\% = 1/9$ and $8.33\% = 1/12$)

Question 12

5.88% of 85 + 5% of 200 = ?

- A 13
- B 15
- C 16
- D 17
- E 18

Answer: B

Explanation:

$$5+10 = 15 \text{ (} 5.88\% = 1/17 \text{)}$$

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Question 13

12.5% of 64 + 11.11% of 90 = ?

- A 18
- B 19
- C 20
- D 22
- E 24

Answer: A

Explanation:

$$8+10 = 18 \text{ (} 12.5\% = 1/8 \text{ and } 11.11\% = 1/9 \text{)}$$

Question 14

7.69% of 130 + 6.66% of 150 = ?

- A 20
- B 21
- C 22
- D 23
- E 24

Answer: A

Explanation:

$$10+10 = 20 \text{ (} 7.69\% = 1/13 \text{ and } 6.66\% = 1/15 \text{)}$$

Question 15

33.33% of 150 + 66.66% of 180 = ?% of 1700

- A 30
- B 25

C 20

D 10

E 15

Answer: D

Explanation:

As we can see that 33.33% of 150 will be $\frac{1}{3}$ of 150 i.e. 50 and 66.66% of 180 will be $\frac{2}{3}$ of 180 i.e. 120
Hence, sum will be = 170 which will be 10% of 1700.
So answer will be d

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