Approximation Questions for SBI PO 2020 PDF

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 =≈ 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

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

$399.99 \approx 400$ and $695.95 \approx 696$ and $29.07 \approx 29$

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

Hence, $24 \times X = 360$ 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

So, $29.38 \times 37.05 \div X + 7.45 = 100.5$
Or, $29.38 \times 37.05 \div X = 93.05$
So, $X = \frac{29.38 \times 37.05}{93.05} = 11.69 \approx 12$

Question 6

21+ 3.9× 2.9 + 8.99 = ?

A 42

B 46

C 44

D 34

E 36

   Answer: A

Explanation:
  21 + 4 x 3 + 9
= 42

Question 7

22.9889 + 0.002 ÷ ? = 23

A 23

B 1

C 23²

D 24

E None of these

   Answer: B

Explanation:
  22.9889 + 0.002 ÷ 1
= 22.9889 + 0.002
= 22.9891 ≈ 23

Question 8

5.26% of 95 + 5.88% of 170 = ?

A 16

B 15

C 14

D 13

E 17

   Answer: B

Explanation:
5+10 = 15 (5.26% = 1/19 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)

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
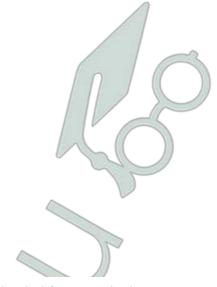
B 30

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 (5.88% = 1/17)

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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 (12.5% = 1/8 and 11.11% = 1/9)

Question 14

7.69% of 130 + 6.66% of 150 = ?

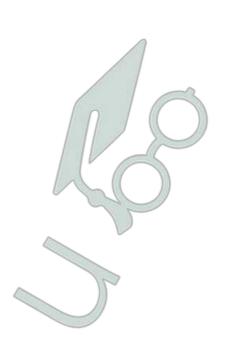**A** 20

B 21

C 22

D 23

E 24

Answer: A

Explanation:
10+10 = 20 (7.69% = 1/13 and 6.66%=1/15)

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