





Banking

WB Police

WB Civil Services

Other Competitive Exams

Date: 23rd Nov 2023

Quantitative Aptitude - Approximation

English

- Q:1 What approximate value should come in the place of question mark (?) in the following question?
- 62.55% of 36.01 + 30.77% of 39.22 + 21.48% of 41.88 = ?
- **1**. 42
- **2.** 34
- **3**. 39
- 4.32
- **5.** 43.5
- Q:2 What approximate value should come in the place of question mark (?) in the following question?
- ? = 6.28% of 32.02 + 5.90% of 34.13 + 5.59% of 35.97 + 5.30% of 38.001
- **1.** 6
- 2.10
- **3.** 8
- **4**. 7
- **5**. 9
- Q:3 What approximate value should come in the place of question mark (?) in the following question?
- ? = 35.73% of 70.11 + 55.58% of 44.98 11.77% of 33.79
- 1.44
- 2.56
- **3.** 51
- **4.** 48
- **5.** 46
- Q:4 What approximate value should come in the place of question mark (?) in the following question?
- ? = 37.56% of 88 + 33.32% of 36
- 1.22
- **2.** 24
- 3. 21.5
- **4**. 45
- **5**. 25
- Q:5 What approximate value should come in the place of question mark (?) in the following question?

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? = $(27)^{0.68} + (16)^{1.55} + (243)^{0.21}$

- **1.** 102
- **2**. 71
- **3.** 90
- **4.** 94
- **5.** 76
- Q:6 Direction: What approximate value should come in the place of question mark (?) in the following question?

$$(7921.11)^{1/2} + (6084.44)^{1/2} - (4624.44)^{1/2} - (529.09)^{1/2} = ? + (729.09)^{3/2}$$

- **1.** 19787
- **2**. -19928
- 3. -19607
- **4.** 19928
- **5.** 19234
- Q:7 What approximate value should come in the place of question mark (?) in the following question?

$$149.133 - 324.187 \div 26.991 = 0.5 \times ?$$

- 1.245
- 2.256
- 3.264
- 4, 274
- 5. 290
- Q:8 What approximate value should come in the place of question mark (?) in the following question?

$$25.124\%$$
 of $639.998 \div 1.987^{-2} = ?$

- 1.600
- **2**. 700
- 3.640
- **4.** 670
- **5.** 500
- Q:9 What approximate value should come in the place of question mark (?) in the following

$$2831.994 \div 23.998 + 11.99^2 \div 5.991 = ?^2$$

- **1.** ±12
- 2. ±13
- 3. ±18
- 4. ±11
- **5.** ±14













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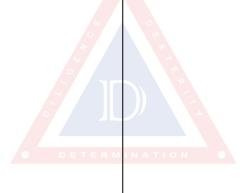
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English

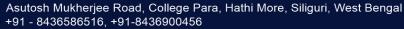
Q:10 What approximate value should come in the place of question mark (?) in the following question?

 $6574.98 \div 74.98 + \sqrt{625.01} \times 14.83 = ? + 45.11$

- **1.** 462
- **2.** 418
- **3.** 467
- **4.** 450
- **5**. 475









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Answer Key

1 . (5)	2 . (3)	3 . (5)	4 . (4)	5. (5)	
6. (3)	7. (4)	8. (3)	9. (1)	10. (2)	

Answers and Solutions

Q:1 The correct answer is Option 5 i.e. 43.5. 62.55% of 36.01 + 30.77% of 39.22 + 21.48% of 41.88 = ?

can be written as

62.5% of 36 + 30.76% of 39 + 21.42% of 42

$$\Rightarrow$$
 62.5% of 36 + 30.76% of 39 + 21.42% of 42 = $(5/12) \times 36 + (4/13) \times 39 + (3/14) \times 42$
 \Rightarrow 5 × (9/2) + 4 × 3 + 3 × 3 = 22.5 + 12 + 9 = 43.5

Q:2 The correct answer is Option 3 i.e. 8

6.28% of 32.02 + 5.90% of 34.13 + 5.59% of 35.97 + 5.30% of 38.001

can be written as 6.25% of 32 + 5.88% of 34 + 5.55% of 36 + 5.26% of 38

 \Rightarrow 6.25% of 32 + 5.88% of 34 + 5.55% of 36 + 5.26% of $38 = (1/16) \times 32 + (1/17) \times 34 + (1/18) \times 36$

 $+(1/19) \times 38$

= 2 + 2 + 2 + 2 = 8

Q:3 The correct answer is Option 5 i.e. 46

? = 35.73% of 70.11 + 55.58% of 44.98 - 11.77% of33.79

can be written as

? = 35.70% of 70 + 55.55% of 45 - 11.76% of 34

 $? = (5/14) \times 70 + (5/9) \times 45 - (2/17) \times 34$

 $? = 5 \times 5 + 5 \times 5 - 2 \times 2 = 25 + 25 - 4$

? = 46

Q:4 The correct answer is Option 4 i.e. 45

? = 37.56% of 88 + 33.32% of 36

can be written as

? = 37.50% of 88 + 33.33% of 36

 $? = (3/8) \times 88 + (1/3) \times 36$

 $? = 3 \times 11 + 12 = 33 + 12 = 45$

Q:5 The correct answer is Option 5 i.e. 76

 $? = (27)^{0.68} + (16)^{1.55} + (243)^{0.21}$

can be written as

 $? = (27)^{2/3} + 16^{3/2} + 243^{1/5}$

$$27^{2/3} = 9$$

 $16^{3/2} = 64$
 $243^{1/5} = 3$
Thus, ? = $(27)^{0.68} + (16)^{1.5} + (243)^{0.21} = 9 + 64 + 3$
= 76

Q:6 The correct answer is Option 3 i.e. -19607. $(7921.11)^{1/2} + (6084.44)^{1/2} - (4624.44)^{1/2} -$

 $(529.09)^{1/2} = ? + (729.09)^{3/2}$

Taking approximate values,

 \Rightarrow $(7921)^{1/2} + (6084)^{1/2} - (4624)^{1/2} - (529)^{1/2} = ?$

 $+ (729)^{3/2}$

 $\Rightarrow (89^2)^{1/2} + (78^2)^{1/2} - (68^2)^{1/2} - (23^2)^{1/2} = ? +$

 $(27^2)^{3/2}$

 \Rightarrow 89 + 78 - 68 - 23 = ? + 19683

 \Rightarrow ? = -19607

Q:7 The correct answer is option 4 i.e 274

 $149.133 - 324.187 \div 26.991 = 0.5 \times ?$

Taking approximate values:

 \Rightarrow ? × 0.5 = 149 - 324 ÷ 27

⇒ ? × 0.5 = 149 − 12

 \Rightarrow ? × 0.5 = 137 \Rightarrow ? = 137 × 2

 \Rightarrow ? = 274

Q:8 The correct answer is option 3 i.e. 640

25.124% of $639.998 \div 1.987^{-2} = ?$

Taking approximate values:

 \Rightarrow ? = 25% of 640 \div 2⁻²

 \Rightarrow ? = (25/100) × 640 × 4

 \Rightarrow ? = 160 × 4

 \Rightarrow ? = 640

Q:9 The correct answer is option 1 i.e. ± 12

 $2831.994 \div 23.998 + 11.99^2 \div 5.991 = ?^2$

Taking approximate values:

 $\Rightarrow 2832/24 + 12^2/6 = ?^2$

 $\Rightarrow 118 + 24 = 142$

 $\Rightarrow 142 = ?^2$

 \Rightarrow ? = ± 12

Q:10 The correct answer is option 2 i.e. 418 $6574.98 \div 74.98 + \sqrt{625.01} \times 14.83 = ? + 45.11$

Taking approximate values:

 \Rightarrow 6575 ÷ 75 + $\sqrt{625}$ × 15 = ? + 45



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 \Rightarrow 88 + 25 × 15 = ? + 45

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⇒ ? = 463 - 45

 \Rightarrow ? = 418



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