

Course: RBI ASSISTANT Mains
Subject: : Approximation

Time: 14 Minutes

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Directions (1-15): निम्नलिखित प्रश्नों में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या अनुमानित मान आना चाहिए?

नोट: सटीक मान की गणना करना आपेक्षित नहीं है।

Q1. 1499.97 का 499.98% + 1791.02 का $\frac{2.01}{3.01} = ?$

- (a) 9194
- (b) 8694
- (c) 11625
- (d) 12291
- (e) 4281

L1Difficulty 2

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Q2. $\frac{1199.98}{37.99}$ का $\sqrt{362}$ % = ? - 599.98 का $2\frac{1.98}{3}$

- (a) 1606
- (b) 1809
- (c) 1701
- (d) 1391
- (e) 1500

L1Difficulty 2

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Q3. $(3)^{1.9} \times (2.99)^? = 728.98 \times 243.03$

- (a) 26
- (b) 18
- (c) 9
- (d) 31
- (e) 2

L1Difficulty 2

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Q4. $1149.98 \div 23.02 + \sqrt{577} = 258.98$ का $\frac{?}{7}$

- (a) 8
- (b) 2
- (c) 10

(d) 14

(e) 16

L1Difficulty 2

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Q5. $(5)^7 \div (4.9)^3 = \sqrt{624} \times \sqrt[5]{3126}$

(a) 20

(b) 16

(c) 12

(d) 6

(e) 24

L1Difficulty 2

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Q6. $\sqrt{730.3}$ का $\frac{1}{3} + \frac{\sqrt{7}}{2} = \sqrt{?} - \sqrt{1226.05} \div 5$

(a) 941

(b) 1024

(c) 576

(d) 625

(e) 729

L1Difficulty 2

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Q7. 80 का 74.89% + ?² + 300 का 19.09% = 5 × ?² + $\sqrt{2809.01}$

(a) 4

(b) 2

(c) 8

(d) 10

(e) 9

L1Difficulty 2

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Q8. 1999 का 40% + 1399.02 का ?% = 3499.92 का 70% - 936.03

(a) 60

(b) 48

(c) 58

(d) 55

(e) 51

L1Difficulty 3

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Q9. $(8.01)^2 + (6.03)^2 + \sqrt{?} = \sqrt{361.01} + 101.01$

- (a) 400
- (b) 256
- (c) 576
- (d) 729
- (e) 289

L1Difficulty 3

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Q10. 480 का 75% + 540 का ?% = 603.011 + 297.01

- (a) 70
- (b) 80
- (c) 90
- (d) 100
- (e) 85

L1Difficulty 3

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Q11. $(24.89 \times (12.02^{1.998} + 5.975) \div 15.0201) + 700.24$ का 46.93% = ?

- (a) 580
- (b) 680
- (c) 497
- (d) 307
- (e) 790

L1Difficulty 3

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Q12. ? = $(98.96 \times 119.979 + 30.08 \times 4.02)$ के 29.01% का 79.96%

- (a) 2084
- (b) 2684
- (c) 3784
- (d) 1126
- (e) 2784

L1Difficulty 3

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Q13. $(\sqrt{100.01})^4$ के 85.002% का 47.989% - $35.89 \times (4.101 \times 53.9) \div (\sqrt{48.89} + 4.996) = ?$

- (a) 3432
- (b) 2640
- (c) 4488
- (d) 2008
- (e) 1832

L1Difficulty 3

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$$Q14. \frac{1}{37.89} \times 5433.989 + \frac{7}{23.01} \times 5726.909 + \frac{4}{5.009} \times 20.089 = ? \times 5.9981$$

- (a) 217
- (b) 386
- (c) 463
- (d) 317
- (e) 184

L1Difficulty 3

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$$Q15. 9.98\% \text{ of } 5707.97 \times 24.89\% \text{ of } 120 - 20.08\% \text{ of } 1699.99 \times 44.899 = ?$$

$$5707.97 \text{ का } 9.98\% \times 120 \text{ का } 24.89\% - 1699.99 \text{ का } 20.08\% \times 44.899 = ?$$

- (a) 1830
- (b) 1560
- (c) 1710
- (d) 1430
- (e) 1980

L1Difficulty 3

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Solutions

S1. Ans.(b)

Sol.

$$\begin{aligned} ? &\simeq \frac{500}{100} \times 1500 + \frac{2}{3} \times 1791 \\ &\simeq 8694 \end{aligned}$$

S2. Ans.(a)

Sol.

$$\begin{aligned} ? &\simeq \frac{19}{100} \times \frac{1200}{38} + \frac{8}{3} \times 600 \\ &\simeq 6 + 1600 \\ &\simeq 1606 \end{aligned}$$

S3. Ans.(c)

Sol.

$$(3)^2 \times 3^? \approx 729 \times 243$$

$$\approx 3^{6+5}$$

$$\Rightarrow (3)^? \approx 3^9$$

$$\Rightarrow ? \approx 9$$

S4. Ans.(b)

Sol.

$$\frac{?}{7} \times 259 \approx \frac{1150}{23} + 24$$

$$\Rightarrow ? \approx 2$$

S5. Ans.(d)

Sol.

$$\frac{(5)^?}{5^3} \approx 25 \times 5$$

$$? \approx 6$$

S6. Ans.(b)

$$\text{Sol.} \approx \frac{1}{3} \times 27 + \frac{\sqrt{?}}{2} = \sqrt{?} - \frac{35}{5}$$

$$\approx 9 + \frac{\sqrt{?}}{2} = \sqrt{?} - 7$$

$$\approx 16 \times 2 = \sqrt{?}$$

$$\approx 1024$$

S7. Ans.(a)

$$\text{Sol.} \approx \frac{75}{100} \times 80 + ?^2 + 19 \times 3 = 5 \times ?^2 + 53$$

$$\approx 60 + 57 = 4 \times ?^2 + 53$$

$$\approx \frac{64}{4} = ?^2 \Rightarrow ? = 4$$

S8. Ans.(e)

$$\text{Sol.} \approx 40 \times 20 + 14 \times ? = 2450 - 936$$

$$\approx 800 + 14 \times ? = 2450 - 936$$

$$\approx 14 \times ? = 1650 - 936$$

$$? = \frac{714}{14}$$

$$? = 51$$

S9. Ans.(a)

Sol.

$$\approx 64 + 36 + \sqrt{?} = 19 + 101$$

$$\approx \sqrt{?} = 20$$

$$\approx ? = 400$$

S10. Ans.(d)

$$\text{Sol. } \approx \frac{3}{4} \times 480 + \frac{?}{100} \times 540 = 603 + 297$$

$$\approx 360 + \frac{?}{100} \times 540 = 900$$

$$540 \times ? = 100 \times 540$$

$$? = 100$$

S11. Ans.(a)

Sol.

$$? \approx (25 \times (144 + 6) \div 15) + 47 \times 7$$

$$\approx 250 + 330$$

$$\approx 580$$

S12. Ans.(e)

Sol.

$$? \approx \frac{80}{100} \times \frac{29}{100} \times (99 \times 120 + 120)$$

$$\approx \frac{80 \times 29 \times 12000}{10000}$$

$$\approx 2784$$

S13. Ans.(a)

Sol.

$$? \approx \frac{48}{100} \times \frac{85}{100} \times 10000 - \frac{36 \times 54 \times 4}{12}$$

$$\approx 4080 - 648$$

$$\approx 3432$$

S14. Ans.(d)

Sol.

$$? \approx \left(\frac{1}{38} \times 5434 + \frac{7}{23} \times 5727 + \frac{4}{5} \times 20 \right) \times \frac{1}{6}$$

$$\approx (143 + 1743 + 16) \times \frac{1}{6}$$

$$\approx 1902 \times \frac{1}{6}$$

$$\approx 317$$

S15. Ans.(a)

Sol.

$$? \approx \frac{10}{100} \times 5710 \times \frac{25}{100} \times 120 - \frac{20}{100} \times 1700 \times 45$$

$$\approx 17130 - 15300$$

$$\approx 1830$$

