Course: SBI PO & IBPS Prelims
Subject: Approximation

Time:12 Minutes
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Directions (1-15): दिए गए प्रश्नों में प्रश्नवाचक चिह्न (?) के स्थान पर क्या अनुमानित मान आएगा, (सटीक मान की गणना करना अपेक्षित नहीं है):

Q1. $6561.01 \div (8.98 \times 3.01) \div 2.98 = ?$
(a) 27
(b) 54
(c) 72
(d) 81
(e) 78
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q2. $\left(\sqrt{120.89} - \sqrt{25.001}\right) + ?\,\%\ of\ 159.993 = 62.011$
(a) 30
(b) 35
(c) 40
(d) 45
(e) 50
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q3. $(156.002 - 554.93 \div 5.01) \times ? = 989.98$
(a) 15
(b) 12
(c) 30
(d) 22
(e) 32
L1Difficulty 3
QTags Approximation
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Q4. $21.001 + ? = (119.91 \times 38.01) \div 47.953$
(a) 74
(b) 66
(c) 54

(d) 84
(e) 94
L1Difficulty 3
QTags Approximation
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Q5. $\sqrt{(2915.995 \div 81.001) \times 16.992 - ?} = 24$
(a) 46
(b) 26
(c) 22
(d) 52
(e) 36
L1Difficulty 3
QTags Approximation
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Q6. $?^2 + 190.98 - 19.01 \times 6.97 = 316.99 \times 1.99$
(a) 14
(b) 19
(c) 24
(d) 26
(e) 16
L1Difficulty 3
QTags Approximation
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Q7. $768.06 \div 11.97 \times \sqrt{256.05} - 58.05 = ?$
(a) 1033
(b) 1175
(c) 966
(d) 880
(e) 975
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q8. 34.02% of $550.09 \div ? = 297.07 \div \sqrt{728.95}$
(a) 14
(b) 21
(c) 8
(d) 27
(e) 17
L1Difficulty 3
QTags Approximation
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Q9. $(? \div 9.97) \times 12.08 = 20.12\%$ of 1319.97

(a) 220
(b) 240
(c) 260
(d) 280
(e) 200

L1Difficulty 3
QTags Approximation
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Q10. $? \%\ of\ 179.99 = \sqrt{(24.02)^2 + (17.98)^2 + 60.01\%\ of\ 659.98}$

(a) 80
(b) 60
(c) 40
(d) 20
(e) 10

L1Difficulty 3
QTags Approximation
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Q11. $7364.99 + (5.01)^2 + \sqrt{?} = 7433.11$

(a) 1894
(b) 1681
(c) 1764
(d) 2025
(e) 1849

L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q12. $127.001 \times 7.998 + 6.05 \times 4.001 = ?$

(a) 1440
(b) 1400
(c) 1000
(d) 1040
(e) 1140

L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q13. $(215.9\%\ of\ 999.8 \div 9.99\ )^{1/3} + (42.01\%\ of\ 599.97) = ?$

(a) 252
(b) 258
(c) 268

(d) 278
(e) 248
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q14. 39.05 × 14.95 – 27.99 × 10.12 = (36.01 + ?) × 4.98
(a) 20
(b) 30
(c) 40
(d) 35
(e) 25
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q15. 335.01 × 244.99 ÷ 35.001 =?
(a) 2345
(b) 2350
(c) 2320
(d) 2410
(e) 2335
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Solution

S1. Ans.(d)
Sol.

$$? = \frac{6561}{9 \times 3 \times 3} = 81$$

S2. Ans.(b)
Sol.

$$\left(\sqrt{121} - \sqrt{25}\right) + \frac{?}{100} \times 160 = 62$$

$$\Rightarrow \frac{?}{100} \times 160 = 62 - 6 = 56$$

$$\Rightarrow ? = \frac{56 \times 100}{160} = 35$$

S3. Ans.(d)
Sol.

$$(156 - 555 \div 5) \times ? = 990$$

$$\Rightarrow 45 \times ? = 990$$

$\Rightarrow ? = \frac{990}{45} = 22$

S4. Ans.(a)
Sol.
$21 + ? = (120 \times 38) \div 48$
$\Rightarrow ? = 95 - 21 = 74$

S5. Ans.(e)
Sol.
$\sqrt{(2916 \div 81) \times 17 - ?} = 24$
$\Rightarrow 612 - ? = (24)^2 = 576$
$\Rightarrow ? = 36$

S6. Ans.(c)
Sol.
$?^2 + 190.98 - 19.01 \times 6.97 = 316.99 \times 1.99$
$?^2 + 191 - 19 \times 7 \approx 317 \times 2$
$?^2 \approx 576$
$? \approx 24$

S7. Ans.(c)
Sol.
$768.06 \div 11.97 \times \sqrt{256.05} - 58.05 = ?$
$768 \div 12 \times 16 - 58 \approx ?$
$? \approx \frac{768 \times 16}{12} - 58$
$? \approx 966$

S8. Ans.(e)
Sol.
34.02% of $550.09 \div ? = 297.07 \div \sqrt{728.95}$
$\frac{34 \times 550}{100} \div ? \approx 297 \div \sqrt{729}$
$\frac{187}{?} \approx \frac{297}{27}$
$? \approx 17$

S9. Ans.(a)
Sol.
$(? \div 9.97) \times 12.08 \approx 20.12\%$ of 1319.97
$(? \div 10) \times 12 \approx \frac{20 \times 1320}{100}$
$? \approx \frac{264}{12} \times 10 \approx 220$

S10. Ans.(d)
Sol.
$?\,\%\ of\ 179.99 = \sqrt{(24.02)^2 + (17.98)^2 + 60.01\%\ of\ 659.98}$
$?\,\%\ of\ 180 \approx \sqrt{(24)^2 + (18)^2 + 60\%\ of\ 660}$
$\frac{?}{100} \times 180 \approx \sqrt{576 + 324 + 396}$
$\frac{?}{100} \times 180 \approx \sqrt{1296}$
$? \approx \frac{36}{180} \times 100$
$? \approx 20$

S11. Ans.(e)
Sol.
$7365 + 25 + \sqrt{?} = 7433$
$\sqrt{?} = 7433 - 7390$
$\sqrt{?} = 43$
$or, ? = 1849$

S12. Ans.(d)
Sol.
$? \approx 127 \times 8 + 6 \times 4$
$? = 1016 + 24$
$? = 1040$

S13. Ans.(b)
Sol.
$? \approx \left(\frac{216\times1000}{100\times10}\right)^{\frac{1}{3}} + \left(\frac{42\times600}{100}\right)$
$= 6 + 252$
?= 258

S14. Ans.(e)
Sol.
$\frac{39\times15-28\times10}{5} = 36+?$
$\Rightarrow 61 = 36 + ?$
$\therefore\ ? = 25$

S15. Ans.(a)
Sol.
$? = 335 \times 245 \div 35$
$= 335 \times \frac{245}{35} \approx 2345$