

Course: IBPS clerk Prelims

Subject: Approximation, Wrong Series

Time: 12 Minutes

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Directions (1-8): निम्नलिखित प्रश्नों में प्रश्नवाचक चिन्ह (?) का अनुमानित मान ज्ञात कीजिए-

Q1. $\sqrt{63.82 \times 36.01} + 419.92 \div 5.84 - 540 = ? - 799.98$

- (a) 426
- (b) 378
- (c) 526
- (d) 328
- (e) 448

Q2. $15.812\% \text{ of } 1600.125 + ?\% \text{ of } 1199.98 = 19.88 \times 121.98$

- (a) 182
- (b) 142
- (c) 326
- (d) 286
- (e) 216

Q3. $(7.98)^3 + (14.88)^2 - (12.01)^2 = ? - 1219.812 - 1749.98$

- (a) 3643
- (b) 3425
- (c) 3416
- (d) 3563
- (e) 3521

Q4. $19.825 \times \sqrt{?} = 63.91\% \text{ of } 399.98 + 11.95\% \text{ of } 1200.01$

- (a) 300
- (b) 500
- (c) 420
- (d) 350
- (e) 400

Q5. $(?)^2 + 14.01\% \text{ of } 1599.98 = 59.01 \times 12.025$

- (a) 18
- (b) 28
- (c) 22

- (d) 36
- (e) 32

Q6. $1149.89 + \sqrt{? - 14.92} = 89.815 \times 13.012$

- (a) 520
- (b) 425
- (c) 415
- (d) 445
- (e) 515

Q7. $(?)^2 + (11.79)^2 + (6.01)^2 + (8.12)^3 = 499.825 + 448.02$

- (a) 32
- (b) 26
- (c) 24
- (d) 12
- (e) 16

Q8. $\sqrt{410.01 + 220.10 - \sqrt{24.98}} = ? + \sqrt{225.05}$

- (a) 10
- (b) 25
- (c) 5
- (d) 15
- (e) 20

Direction (9 - 13): निम्नलिखित संख्या श्रृंखला में कौन सी संख्या गलत संख्या को प्रतिस्थापित करेगी:

Q9. 56.6, 83, 107.2, 129.2, 149, 166.2, 182

- (a) 166.4
- (b) 168.6
- (c) 160.6
- (d) 164.6
- (e) 166.6

Q10. 1228, 1589, 1300, 1535, 1356, 1477, 1396

- (a) 1525
- (b) 1515
- (c) 1520
- (d) 1510
- (e) 1530

Q11. 45, 165, 110, 240, 165, 305, 240

- (a) 155
- (b) 145
- (c) 175
- (d) 160
- (e) 185

Q12. 12, 18, 28, 46, 80, 148, 276

- (a) 142
- (b) 144
- (c) 152
- (d) 146
- (e) 154

Q13. 6, 32, 156, 620, 1854, 3708, 3704

- (a) 1854
- (b) 1856
- (c) 1852
- (d) 1850
- (e) 1858

Direction (14- 15): निम्नलिखित संख्या श्रृंखला में गलत पद ज्ञात कीजिए-

Q14. 1728, 998, 1511, 1167, 1384, 1260, 1323

- (a) 998
- (b) 1511
- (c) 1323
- (d) 1167
- (e) 1260

Q15. 2.5, 60, 720, 4320, 12960, 19480, 14580

- (a) 720
- (b) 4320
- (c) 12960
- (d) 19480
- (e) 14580

Solutions

S1. Ans.(b)

Sol.

$$\sqrt{64 \times 36} + \frac{420}{6} - 540 = ? - 800$$

$$? = \sqrt{2304} + 70 - 540 + 800$$

$$? = 378$$

S2. Ans.(a)

Sol.

$$\frac{16}{100} \times 1600 + \frac{?}{100} \times 1200 = 20 \times 122$$

$$256 + ? \times 12 = 2440$$

$$? = \frac{2184}{12} = 182$$

S3. Ans.(d)

Sol.

$$(8)^3 + (15)^2 - (12)^2 = ? - 1220 - 1750$$

$$512 + 225 - 144 = ? - 2970$$

$$? = 3563$$

S4. Ans.(e)

Sol.

$$20 \times \sqrt{?} = \frac{64}{100} \times 400 + \frac{12}{100} \times 1200$$

$$20 \times \sqrt{?} = 256 + 144$$

$$\sqrt{?} = \frac{400}{20} = 20$$

$$? = 400$$

S5. Ans.(c)

Sol.

$$(?)^2 + \frac{14}{100} \times 1600 = 59 \times 12$$

$$(?)^2 + 224 = 708$$

$$(?)^2 = 484$$

$$? = 22$$

S6. Ans.(c)

Sol.

$$1150 + \sqrt{?-15} \approx 90 \times 13$$

$$1150 + \sqrt{?-15} = 1170$$

$$\sqrt{?-15} = 20$$

$$? = 415$$

S7. Ans.(e)

Sol.

$$(?)^2 + (12)^2 + (6)^2 + (8)^3 \simeq 500 + 448$$

$$(?)^2 = 948 - 144 - 36 - 512$$

$$(?)^2 = 256$$

$$? = 16$$

S8. Ans.(a)

Sol.

$$\sqrt{410 + 220} - \sqrt{25} \simeq ? + 15$$

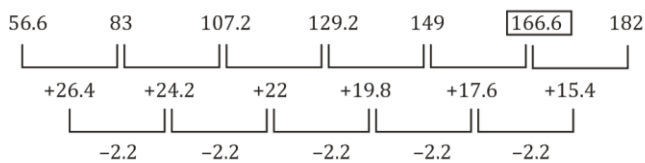
$$? = \sqrt{630} - 5 - 15$$

$$? = 25 - 15 = 10$$

S9. Ans(e)

Sol.

Pattern of series -



So, 166.2 should be replaced by 166.6.

S10. Ans(a)

Sol.

Pattern of series -

$$1228 + (19)^2 = 1589$$

$$1589 - (17)^2 = 1300$$

$$1300 + (15)^2 = \mathbf{1525}$$

$$1525 - (13)^2 = 1356$$

$$1356 + (11)^2 = 1477$$

$$1477 - (9)^2 = 1396$$

So, 1535 should be replaced by 1525.

S11. Ans(c)

Sol.

Pattern of series -

$$45 + 130 = \mathbf{175}$$

$$175 - 65 = 110$$

$$110 + 130 = 240$$

$$240 - 65 = 175$$

$$175 + 130 = 305$$

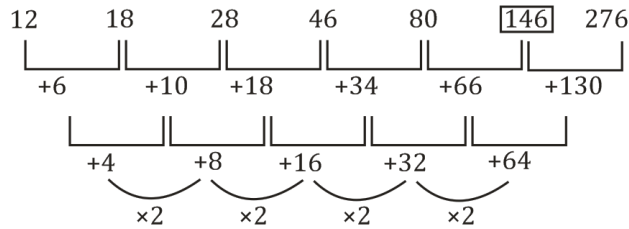
$$305 - 65 = 240$$

So, 165 should be replaced by 175.

S12. Ans(d)

Sol.

Pattern of series -



So, 148 should be replaced by 146.

S13. Ans(b)

Sol.

Pattern of series -

$$6 \times 6 - 4 = 32$$

$$32 \times 5 - 4 = 156$$

$$156 \times 4 - 4 = 620$$

$$620 \times 3 - 4 = \mathbf{1856}$$

$$1856 \times 2 - 4 = 3708$$

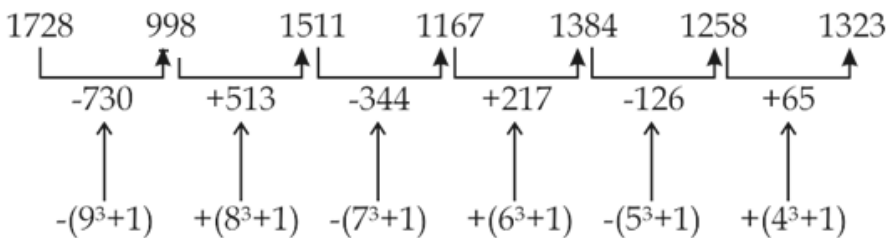
$$3708 \times 1 - 4 = 3704$$

So, 1854 should be replaced by 1856.

S14. Ans(e)

Sol.

Wrong number = 1260



So, there should be 1258 instead of 1260

S15. Ans(d)

Sol.

Wrong number = 19480

Pattern of series -

$$2.5 \times 24 = 60$$

$$60 \times 12 = 720$$

$$720 \times 6 = 4320$$

$$4320 \times 3 = 12960$$

$$12960 \times 1.5 = 19440$$

$$19440 \times 0.75 = 14580$$

So, there should be 19440 instead of 19480.