

Approximation Questions for IBPS PO 2025

Directions (1-5): What approximate value will come in place of question mark (?) in the following questions (You are not expected to calculate the exact value).

Q1. $14.98 \times 24.88\% \text{ of } 140.02 = ? \times 15$

- (a) 45
- (b) 25
- (c) 50
- (d) 35
- (e) 65

Q2. $1569.99 + 2190.012 - \frac{4}{9} \text{ of } 198.12 = \frac{?}{4}$

- (a) 12122
- (b) 14478
- (c) 18750
- (d) 10980
- (e) 14688

Q3. $80.04\% \text{ of } 560.05 + 19.02^2 - \sqrt[3]{4913.21} = ?$

- (a) 702
- (b) 868
- (c) 912
- (d) 792
- (e) 446

Q4. $44.04 \div 3.97 \times 8.99 \div 2.94 + 3.01 = \sqrt{?}$

- (a) 6
- (b) 36
- (c) 24
- (d) 1296
- (e) 216

Q5. $\sqrt{39.94\% \text{ of } 375.08 + 75.07\% \text{ of } 59.92} = ?$

- (a) 12
- (b) 14
- (c) 16
- (d) 18
- (e) 22

Directions (6-10): What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

Q6. $\sqrt{\sqrt{(99.99 + 104.99 \times 5)}} = ? \div 8.989$

- (a) 55
- (b) 15
- (c) 25
- (d) 35
- (e) 45

Q7. $35.99 \times 4.98 - 1199.99 \div 7.99 = ?$

- (a) 20
- (b) 50
- (c) 40
- (d) 30
- (e) 10

Q8. $?^2 + 60\% \text{ of } 239.99 = 55\% \text{ of } 320.02 + 3.98$

- (a) 8
- (b) 6
- (c) 4
- (d) 16
- (e) 14

Q9. $524.90 + 125.05 = ? \times 9.99$

- (a) 85
- (b) 75
- (c) 65
- (d) 55
- (e) 45

Q10. $\sqrt{144.04} \times 15\% \text{ of } 120.09 = ? - 54.99 \times 3.03$

- (a) 401
- (b) 431
- (c) 341
- (d) 471
- (e) 381

Direction (11-13): What approximate value should come in the place of question (?) mark in following question.

Q11. $(? \% \text{ of } 6400.01) \times (? \div 511.99) = (4.98)^3 + 2.99$

- (a) 44
- (b) 48
- (c) 45
- (d) 32
- (e) 37

Q12. $24.07\% \text{ of } 1600.03 + (15.99\% \text{ of } 599.99) \div 31.99 = ?^2 - 12.94$

- (a) 20
- (b) 28
- (c) 26
- (d) 22
- (e) 24

Q13. $(190.05 \times 47.89) \div (1368.01 \div 440.99) + 86.99\% \text{ of } 499.97 = ?^3$

- (a) 10
- (b) 12
- (c) 18
- (d) 15
- (e) 20

Q14. $? \% \text{ of } 224.99 + 19.01 \% \text{ of } 699.98 = (15.99)^2 - 30.01\% \text{ of } 289.99$

- (a) 18
- (b) 16
- (c) 12
- (d) 10
- (e) 8

Q15. $?^3 + (18.01)^2 = 59.99\% \text{ of } 899.93$

- (a) 5
- (b) 4
- (c) 2
- (d) 6
- (e) 3

Q16. $\frac{87.01 \times 7.98}{?} + 7.99\% \text{ of } 1149.98 = (18.01)^2$

- (a) 3
- (b) 27
- (c) 12
- (d) 6
- (e) 9

Q17. $(2)^? \% \text{ of } 499.99 + \sqrt{1296.01} = (13.98)^2$

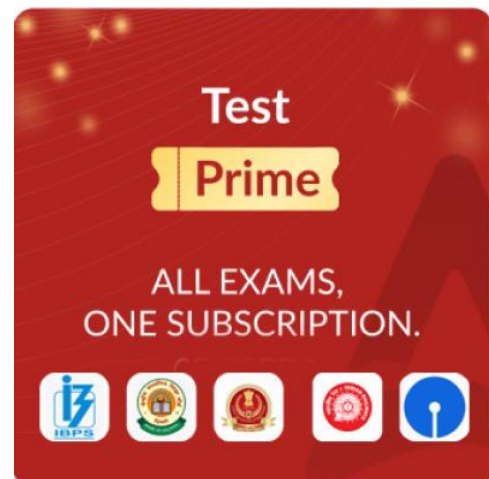
- (a) 4
- (b) 2
- (c) 5
- (d) 6
- (e) 3

Q18. $?^2 + 439.08 - 40.011\% \text{ of } 899.99 = 7.99\% \text{ of } 2500.008$

- (a) 9
- (b) 11
- (c) 16
- (d) 13
- (e) 12

Q19. $12.123 \times 15.03 + 26.89 - ? = 28.09\% \text{ of } 400.003$

- (a) 95
- (b) 80
- (c) 100
- (d) 125
- (e) 60



Q20. 25.02% of 680.14 + 15.99% of 525.11 - 22.14% of 450.09 = ?

- (a) 155
- (b) 190
- (c) 120
- (d) 135
- (e) 205

Q21. 24.88% of 30.19% of 840.33 = ?

- (a) 47
- (b) 63
- (c) 55
- (d) 86
- (e) 74

Q22. $(36.024)^{1/2} + (168.98)^{1/2} = ?$

- (a) 11
- (b) 19
- (c) 7
- (d) 2
- (e) 26

Q23. 74.89% of $12.1^2 = ?$

- (a) 75
- (b) 95
- (c) 100
- (d) 108
- (e) 120

Q24. 19.98% of 220.01 - 29.88% of 120.2 = ?³

- (a) 12
- (b) 6
- (c) 4
- (d) 2
- (e) 10

Q25. $(22.02 \times 74.92\% \text{ of } 400.121) \div (5.04 \times 10.89) = ?$

- (a) 142
- (b) 98
- (c) 108
- (d) 126
- (e) 120

Q26. $198.82 + 121.01 - \frac{4}{11} \text{ of } 209.202 = ? \times 2.09$

- (a) 194
- (b) 146
- (c) 85
- (d) 122
- (e) 109

Q27. $26.902^2 + 15.05\% \text{ of } 179.99 = ? + 489.909$

- (a) 266
- (b) 254
- (c) 247
- (d) 222
- (e) 212

Q28. $80.091\% \text{ of } 1090.21 - ? = 5.90 \times$

$\sqrt[3]{1727.99}$

- (a) 805
- (b) 800
- (c) 815
- (d) 840
- (e) 865

Q29. $?^2 = (\sqrt{1444.03} + \sqrt{675.99}) \div 4.01$

- (a) 6
- (b) 16
- (c) 8
- (d) 2
- (e) 4

Q30. $2^? = 63.99 \times 288.01 \div 255.97 \div 36.03 \times 16.04$

- (a) 2
- (b) 3
- (c) 4
- (d) 5
- (e) 6

Q31. 89.98% of ? = $\sqrt{576.01} \div \sqrt[3]{64.03} \times \sqrt{728.98}$

- (a) 90
- (b) 180
- (c) 270
- (d) 162
- (e) 540

Q32. $? = 40.01\% \text{ of } 319.99 + (3.99)^3 \div 18.01 \times 107.95 \div 8.01$

- (a) 176
- (b) 172
- (c) 168
- (d) 166
- (e) 186

Q33. $59.93\% \text{ of } (152.01 \div 18.99) \times ? = (2.99)^3 \times (3.99)^2$

- (a) 80
- (b) 60
- (c) 45
- (d) 90
- (e) 30

Q34. $189.98 + 49.96\% \text{ of } 539.98 + ? = 630.03$

- (a) 190
- (b) 170
- (c) 120
- (d) 240
- (e) 200

Q35. $\frac{276.02}{12.03} \times \frac{79.99}{115.01} \times ? = 31.99\% \text{ of } 199.98$

- (a) 4
- (b) 16
- (c) 30
- (d) 8
- (e) 24

Q36. $(284.02 + 184.001 \div 3.997) \div (594.01 \div 9.02) = ?$

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

Q37. $684.03 + 2171.999 \div 5.98 + 49.98 \times 5.02 = ?^2$

- (a) 42
- (b) 36
- (c) 24
- (d) 26
- (e) 16

Q38. $(79.97\% \text{ of } 250.02) \text{ of } 4.99 \div (4.97)^2 = ?$

- (a) 40
- (b) 70
- (c) 90
- (d) 60
- (e) 20

Q39. $1199.89 \div 59.94 + 80.05 = ?^2$

- (a) 8
- (b) 16
- (c) 12
- (d) 10
- (e) 17

Q40. $41.13\% \text{ of } 1500.22 + 60.19 \times 5.9 = ?$

- (a) 1120
- (b) 1010
- (c) 945
- (d) 990
- (e) 975

Q41. $2449.97 \div 7.09 + 15.11 - \sqrt{196.2} \times 5.11 = ? \times 4.97$

- (a) 70
- (b) 62
- (c) 45
- (d) 59
- (e) 64

Q42. $109.99\% \text{ of } 250.02 = 20.15\% \text{ of } ? + 10.15\% \text{ of } 199.92$

- (a) 1275
- (b) 1450
- (c) 1645
- (d) 1455
- (e) 875

Q43. $9.99 \times 12.2 + 80.15 \times 5.89 = ? \times 8.05$

- (a) 49
- (b) 75
- (c) 56
- (d) 68
- (e) 82

Q44. $?^2 + 190.98 - 19.01 \times 6.97 = 316.99 \times 1.99$

- (a) 11
- (b) 19
- (c) 24
- (d) 28
- (e) 16

Q45. $1536.06 \div 29.97 \times \sqrt{100.05} - 58.05 = ?$

- (a) 433
- (b) 475
- (c) 454
- (d) 480
- (e) 420

Q46. $68.02\% \text{ of } 5500.09 \div ? = 306.06 \div \sqrt{323.95}$

- (a) 145
- (b) 241
- (c) 280
- (d) 270
- (e) 220

Q47. $(? \div 9.97) \times 12.08 = 20.12\% \text{ of } 1319.97$

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

Q48. $? \% \text{ of } 179.99 = \sqrt{(24.02)^2 + (17.98)^2 + 60.01\% \text{ of } 659.98}$

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

Q49. $21.99\% \text{ of } 1949.89 \div 10.92 = ? \div 4.04$

- (a) 176
- (b) 142
- (c) 164
- (d) 156
- (e) 178

Q50. $69.90\% \text{ of } 249.99 + 14.902^2 = ?^2 \times 3.88$

- (a) 2
- (b) 14
- (c) 5
- (d) 18
- (e) 10

Q51. $\sqrt{9.89 \times 24.14 + 7.21^2} + 95.02 \times 5.01 = ?$

- (a) 402
- (b) 424
- (c) 466
- (d) 492
- (e) 458

Q52. $(\sqrt[3]{5832.042} + (124.92\% \times 799.89) - 31.25^2) \div 19.11 = \sqrt{?}$

- (a) 9
- (b) 6
- (c) 7
- (d) 4
- (e) 5

Q53. $(14.81 \times 21.012) \div 9.02 = ? - 40.15\% \text{ of } 225.25$

- (a) 115
- (b) 125
- (c) 145
- (d) 150
- (e) 160

Q54. $(1044.92 + 45.01) \div 9.90 + \frac{5}{14} \text{ of } 126.04 - 14.98\% \text{ of } 700.02 = ?^2$

- (a) 12
- (b) 2
- (c) 4
- (d) 7
- (e) 9

Q55. $24.98^2 + 15.92 \times 6.22 - 49.89 \times 19.22 = ? + 20.15\% \text{ of } 200.04$

- (a) -264
- (b) -260
- (c) -274
- (d) -278
- (e) -269

Q56. 50.29% of 3049.96-10.15% of 419.942 + $\frac{1}{9}$ of 81.18 =?

- (a) 1475
- (b) 1428
- (c) 1409
- (d) 1492
- (e) 1461

Q57. (74.98% of 599.80) $\div$ 8.81 + 84.2 $\times$ 1.878 =?

- (a) 199
- (b) 218
- (c) 222
- (d) 271
- (e) 187

Q58. $?^2 = 56.90 + 19.90\%$ of 560.042

- (a) 13
- (b) 10
- (c) 7
- (d) 15
- (e) 17

Q59. 44.88% of 399.99 + 39.99% of 120.020 = ? - 45.02

- (a) 283
- (b) 273
- (c) 303
- (d) 243
- (e) 203

Q60. $\frac{306.12}{17.98} + 456.98 - 19.20 \times 21.02 = ? \times 14.82$

- (a) 5
- (b) 2
- (c) 9
- (d) 8
- (e) 3

Q61. $\frac{24.87 \times 34.88}{25.0256\% \text{ of } 99.99} + ? = 459.88 + \frac{1}{9} \text{ of } 791.890$

- (a) 546
- (b) 528
- (c) 589
- (d) 513
- (e) 501

Q62. $(19.045)^2 - 5.067 \times 2.09 + \frac{(24.04)^2}{17.924} = ?$

- (a) 348
- (b) 328
- (c) 362
- (d) 392
- (e) 383

Q63. $\sqrt[3]{3375.176} = (8.045)^3 - ? - \sqrt{1764.278} + 79.87\%$ of 540.11

- (a) 820
- (b) 927
- (c) 854
- (d) 887
- (e) 847

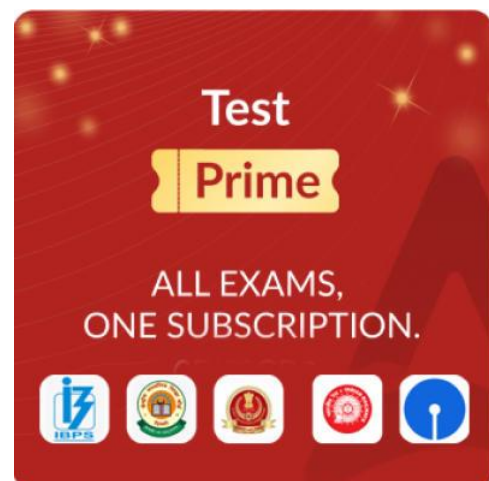
Directions (64-68): What approximate value will come in place of question mark (?) in the following question. (You are not expected to calculate the exact value)

Q64. 115% of 4881 - 85% of 1642 = 740% of ?

- (a) 570
- (b) 1140
- (c) 590
- (d) 1710
- (e) 285

Q65. 3251.05 + 587.09 + 368.93 - ? = 3006.87

- (a) 1250
- (b) 1300
- (c) 1375
- (d) 1400
- (e) 1200



Q66. $\sqrt[3]{9262} \times \sqrt{1683} = ? + 89.08$

- (a) 772
- (b) 166
- (c) 663
- (d) 652
- (e) 762

Q67. $8.04 \frac{1}{2.99} \times 2.06 \frac{2}{4.98} + ? = 14.05 \frac{1}{\sqrt[3]{217}} \times 3.06 \frac{3}{17}$

- (a) 25
- (b) 20
- (c) 16
- (d) 23
- (e) 27

Q68. 64% of 8902 + ? % of 5298 = 6851

- (a) 22
- (b) 36
- (c) 15
- (d) 12
- (e) 30

Directions (69–73): What approximate value should come in the place of question (?) mark.

Q69. $260/37 + \sqrt{198} + \sqrt[3]{?} = 5^2$

- (a) 216
- (b) 125
- (c) 8
- (d) 64
- (e) 64

Q70. $\sqrt{965} + 30\% \text{ of } 698 + 16 = ?^2$

- (a) 16
- (b) 12
- (c) 14
- (d) 10
- (e) 18

Q71. $539/15 \times 383/48 = ? \times 12^2$

- (a) 1
- (b) 4
- (c) 3
- (d) 2
- (e) 6

Q72. $? \times \sqrt{170} = 26 \frac{\sqrt[3]{127}}{6} \times 6 \frac{\sqrt{330}}{23}$

- (a) 20
- (b) 18
- (c) 21
- (d) 14
- (e) 15

Q73. $(? + \sqrt{678})\% \text{ of } 1202 + 375 \div 75 \times \sqrt[3]{66} = 501$

- (a) 18
- (b) 12
- (c) 14
- (d) 16
- (e) 10

Directions (74–78): What approximate value will come in place of question mark (?) in the given questions.

Q74. 18% of 256 + 35% of 290 – 15% of 385 = ?

- (a) 83
- (b) 80
- (c) 90
- (d) 70
- (e) 85

Q75. $\sqrt{4090} \times \sqrt[3]{12163} + 49 = (?)^2$

- (a) 29
- (b) 49
- (c) 33
- (d) 39
- (e) 37

Q76. $8 \frac{4}{7} + 9 \frac{3}{4} - 3 \frac{5}{8} - ? = 6 \frac{29}{56}$

- (a) 8
- (b) 6
- (c) 10
- (d) 5
- (e) 2

Q77. $\frac{9}{42} \div \frac{108}{63} \times 328 - \frac{5}{7} + \frac{7}{5} = ?$

- (a) 32
- (b) 28
- (c) 40
- (d) 45
- (e) 42

Q78. $\left(16\frac{2}{3} \times \frac{45}{39}\right) \div \left(3\frac{15}{26} - 3\frac{4}{13}\right) = ?$

- (a) 65
(b) 62
(c) 76
(d) 71
(e) 78

Direction (79-83): What approximate value should come in the place of question (?) mark.

Q79. $\frac{\sqrt{39\% \text{ of } 796 - 31.05}}{?} = 16.99$

- (a) 1
(b) 10
(c) 30
(d) 40
(e) 50

Q80. $\frac{(3.99)^3 \times (32.03)^2}{(7.99)^3} = ?$

- (a) 900
(b) 1024
(c) 756
(d) 128

(e) 132

Q81. $\frac{3.99 \text{ of } 142.99}{26.03} \div \frac{11}{10.09} = ?$

- (a) 28
(b) 20
(c) 22
(d) 25
(e) 34

Q82. $? + 2197.890 = 3481.999 - 681.231$

- (a) 603
(b) 593
(c) 613
(d) 623
(e) 583

Q83. $29\% \text{ of } 178 - 69\% \text{ of } 99 = 88\% \text{ of } 498 - ?$

- (a) 390
(b) 722
(c) 366
(d) 566
(e) 466

Solutions

S1. Ans.(d)

Sol. $15 \times \frac{25}{100} \times 140 = ? \times 15$

$\frac{525}{15} = ?$

$35 = ?$

S2. Ans.(e)

Sol. $1570 + 2190 - \frac{4}{9} \text{ of } 198 = \frac{?}{4}$

$3760 - 88 = \frac{?}{4}$

$14688 = ?$

S3. Ans.(d)

Sol. $\frac{80}{100} \times 560 + 361 - \sqrt[3]{4913}$

$448 + 361 - 17 = ?$

$792 = ?$

S4. Ans.(d)

Sol. $\frac{44}{4} \times \frac{9}{3} + 3 = \sqrt{?}$

$\sqrt{?} = 11 \times 3 + 3$

$36 = \sqrt{?}$

$? = 1296$

S5. Ans.(b)

Sol.

$\sqrt{40\% \times 375 + 75\% \times 60} = ?$

$? = \sqrt{150 + 45}$

$? = \sqrt{195}$

$? = 14$

S6. Ans.(e)

$$\text{Sol. } \sqrt{\sqrt{(99.99 + 104.99 \times 5)} = ? \div 8.989}$$

$$\sqrt{\sqrt{100 + 105 \times 5}} = \frac{?}{9}$$

$$\sqrt{\sqrt{625}} = \frac{?}{9}$$

$$? = 45$$

S7. Ans.(d)

$$\text{Sol. } 35.99 \times 4.98 - 1199.99 \div 7.99 = ?$$

$$36 \times 5 - \frac{1200}{8} = ?$$

$$? = 180 - 150$$

$$? = 30$$

S8. Ans.(b)

$$\text{Sol. } ?^2 + 60\% \text{ of } 239.99 = 55\% \text{ of } 320.02 + 3.98$$

$$?^2 + \frac{60}{100} \times 240 = \frac{55}{100} \times 320 + 4$$

$$?^2 = 180 - 144$$

$$? = 6$$

S9. Ans.(c)

$$\text{Sol. } 525 + 125 = ? \times 10$$

$$? = \frac{650}{10}$$

$$? = 65$$

S10. Ans.(e)

$$\text{Sol. } \sqrt{144} \times \frac{15}{100} \times 120 = ? - 55 \times 3$$

$$12 \times 18 = ? - 165$$

$$? = 216 + 165$$

$$? = 381$$

S11. Ans.(d)

$$\text{Sol. } \frac{?}{100} \times 6400 \times ? \times \frac{1}{512} \approx 125 + 3$$

$$?^2 \times \frac{1}{8} \approx 128$$

$$?^2 \approx 1024$$

$$? \approx 32$$

S12. Ans.(a)

$$\text{Sol. } \frac{24}{100} \times 1600 + \left(\frac{16}{100} \times 600\right) \times \frac{1}{32} \approx ?^2 - 13$$

$$384 + 3 + 13 \approx ?^2$$

$$?^2 \approx 400$$

$$? \approx 20$$

S13. Ans.(d)

$$\text{Sol. } (190 \times 48) \div \left(\frac{1368}{441}\right) + \frac{87}{100} \times 500 \approx ?^3$$

$$190 \times 48 \times \frac{441}{1368} + 435 \approx (?)^3$$

$$2940 + 435 \approx (?)^3$$

$$? \approx 15$$

S14. Ans.(b)

$$\text{Sol. } \frac{?}{100} \times 225 + \frac{19}{100} \times 700 = 256 - \frac{30}{100} \times 290$$

$$\frac{?}{100} \times 225 = 169 - 133$$

$$\frac{?}{100} \times 225 = 36$$

$$? = \frac{3600}{225}$$

$$? = 16$$

S15. Ans.(d)

$$\text{Sol. } ?^3 + 324 = \frac{60}{100} \times 900$$

$$?^3 = 540 - 324$$

$$?^3 = 216$$

$$?^3 = (6)^3$$

$$? = 6$$

S16. Ans.(a)

$$\text{Sol. } \frac{87 \times 8}{?} + \frac{8}{100} \times 1150 = 324$$

$$\frac{87 \times 8}{?} = 324 - 92$$

$$? = \frac{696}{232}$$

$$? = 3$$

S17. Ans.(c)

$$\text{Sol. } \frac{2^?}{100} \times 500 + 36 = 196$$

$$\frac{2^?}{100} \times 500 = 160$$

$$2^? = 32$$

$$2^? = (2)^5$$

$$? = 5$$

S18. Ans.(b)

$$\text{Sol. } ?^2 + 439 - \frac{40}{100} \times 900 = \frac{8}{100} \times 2500$$

$$?^2 + 79 = 200$$

$$?^2 = 121$$

$$?^2 = (11)^2$$

$$? = 11$$

S19. Ans.(a)

Sol. $12 \times 15 + 27 - ? = 28\% \text{ of } 400$

$$180 + 27 - ? = 28 \times 4$$

$$95 = ?$$

S20. Ans.(a)

Sol. $25\% \text{ of } 680 + 16\% \text{ of } 525 - 22\% \text{ of } 450 = ?$

$$170 + 84 - 99 = ?$$

$$155 = ?$$

S21. Ans.(b)

Sol. $840 \times \frac{25}{100} \times \frac{30}{100} = ?$

$$63 = ?$$

S22. Ans.(b)

Sol. $(36)^{1/2} + (169)^{1/2} = ?$

$$6 + 13 = ?$$

$$19 = ?$$

S23. Ans.(d)

Sol. $\frac{75}{100} \times 144 = ?$

$$108 = ?$$

S24. Ans.(d)

Sol. $20\% \text{ of } 220 - 30\% \text{ of } 120 = ?^3$

$$44 - 36 = ?^3$$

$$2 = ?$$

S25. Ans.(e)

Sol. $(22 \times 75\% \text{ of } 400) \div (5 \times 11) = ?$

$$\frac{6600}{55} = ?$$

$$120 = ?$$

S26. Ans.(d)

Sol. $199 + 121 - \frac{4}{11} \text{ of } 209 = ? \times 2$

$$\frac{244}{2} = ?$$

$$122 = ?$$

S27. Ans.(a)

Sol. $27^2 + 15\% \text{ of } 180 = ? + 490$

$$729 + 27 - 490 = ?$$

$$266 = ?$$

S28. Ans.(b)

Sol. $80\% \text{ of } 1090 - ? = 6 \times \sqrt[3]{1728}$

$$872 - ? = 72$$

$$800 = ?$$

S29. Ans.(e)

Sol. $?^2 = \frac{(\sqrt{1444} + \sqrt{676})}{4} = \frac{38 + 26}{4} = \frac{64}{4} = 16$

$$? = 4$$

S30. Ans.(d)

Sol. $2^? = \frac{64 \times 288 \times 16}{256 \times 36}$

$$2^? = 32$$

$$2^? = 2^5$$

$$? = 5$$

S31. Ans.(b)

Sol. $90\% \text{ of } ? = \sqrt{576} \div \sqrt[3]{64} \times \sqrt{729}$

$$? = \frac{24}{4} \times \frac{27}{9} \times 10$$

$$? = 180$$

S32. Ans.(a)

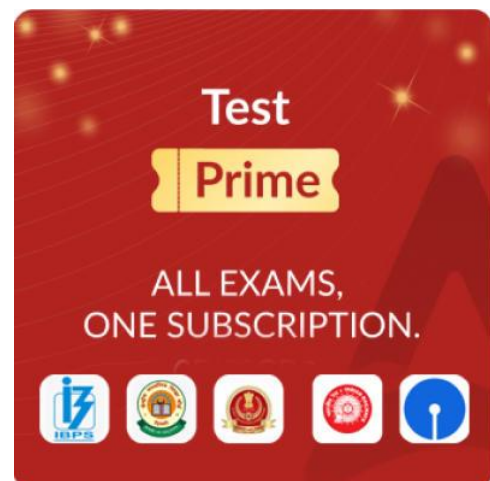
Sol. $? = 40\% \text{ of } 320 + \frac{4^3}{18} \times \frac{108}{8}$

$$= 128 + 48 = 176$$

S33. Ans.(d)

Sol. $\frac{60}{100} \times \frac{152}{19} \times ? = 3^3 \times 4^2$

$$\Rightarrow ? = \frac{27 \times 16 \times 100 \times 19}{60 \times 152} = 90$$



S34. Ans.(b)

Sol. $190 + \frac{50}{100} \times 540 + ? = 630$
 $? = 630 - 460$
 $? = 170$

S35. Ans.(a)

Sol. $\frac{276}{12} \times \frac{80}{115} \times ? = \frac{32}{100} \times 200$
 $? = 64 \times \frac{1}{16}$
 $? = 4$

S36. Ans.(d)

Sol. $\left(284 + \frac{184}{4}\right) \div \left(\frac{594}{9}\right) = ?$
 $? = 330 \times \frac{1}{66}$
 $? = 5$

S37. Ans.(b)

Sol. $684 + \frac{2172}{6} + 50 \times 5 = ?^2$
 $? = \sqrt{1296}$
 $? = 36$

S38. Ans.(a)

Sol. $\left(\frac{80}{100} \times 250\right) \times 5 \times \frac{1}{(5)^2} = ?$
 $? = 40$

S39. Ans.(d)

Sol. $1200 \div 60 + 80 = ?^2$
 $10 = ?$

S40. Ans.(e)

Sol. $41\% \text{ of } 1500 + 60 \times 6 = ?$
 $615 + 360 = ?$
 $975 = ?$

S41. Ans.(d)

Sol. $2450 \div 7 + 15 - \sqrt{196} \times 5 = ? \times 5$
 $365 - 70 = ? \times 5$
 $59 = ?$

S42. Ans.(a)

Sol. $110\% \text{ of } 250 = 20\% \text{ of } ? + 10\% \text{ of } 200$
 $275 = \frac{20}{100} \times ? + 20$
 $1275 = ?$

S43. Ans.(b)

Sol. $10 \times 12 + 80 \times 6 = ? \times 8$
 $120 + 480 = ? \times 8$
 $75 = ?$

S44. Ans.(c)

Sol. $?^2 + 191 - 19 \times 7 = 317 \times 2$
 $?^2 = 576$
 $? = 24$

S45. Ans.(c)

Sol. $1536 \div 30 \times 10 - 58 = ?$
 $? = \frac{1536 \times 10}{30} - 58$
 $? = 454$

S46. Ans.(e)

Sol. $\frac{68 \times 5500}{100} \div ? = 306 \div 18$
 $\frac{3740}{?} = \frac{306}{18}$
 $? = 220$

S47. Ans.(a)

Sol. $(? \div 10) \times 12 = \frac{20 \times 1320}{100}$
 $? = \frac{264}{12} \times 10 = 220$

S48. Ans.(d)

Sol.
 $? \% \text{ of } 180 = \sqrt{(24)^2 + (18)^2} + 60\% \text{ of } 660$
 $\frac{?}{100} \times 180 = \sqrt{576 + 324} + 396$
 $\frac{?}{100} \times 180 = \sqrt{1296}$
 $? = \frac{36}{180} \times 100$
 $? = 20$

S49. Ans.(d)

Sol. $22\% \text{ of } 1950 \div 11 = ? \div 4$
 $39 = ? \div 4$
 $? = 156$

S50. Ans.(e)

Sol. $70\% \text{ of } 250 + 15^2 = ?^2 \times 4$
 $400 = ?^2 \times 4$
 $? = 10$

S51. Ans.(d)

Sol. $\sqrt{10 \times 24 + 7^2} + 95 \times 5 = ?$
 $17 + 475 = ?$
 $? = 492$

S52. Ans.(a)

Sol. $(\sqrt[3]{5832} + (125\% \times 800) - 31^2) \div 19 = \sqrt{?}$
 $\frac{18+1000-961}{19} = \sqrt{?}$
 $3 = \sqrt{?}$
 $? = 9$

S53. Ans.(b)

Sol. $(15 \times 21) \div 9 = ? - 40\% \text{ of } 225$
 $35 = ? - 90$
 $? = 125$

S54. Ans.(d)

Sol. $(1045 + 45) \div 10 + \frac{5}{14} \text{ of } 126 -$
 $15\% \text{ of } 700 = ?^2$
 $109 + 45 - 105 = ?^2$
 $49 = ?^2$
 $7 = ?$

S55. Ans.(e)

Sol. $25^2 + 16 \times 6 - 50 \times 19 = ? + 20\% \text{ of } 200$
 $625 + 96 - 950 = ? + 40$
 $-269 = ?$

S56. Ans.(d)

Sol. $50\% \text{ of } 3050 - 10\% \text{ of } 420 + \frac{1}{9} \text{ of } 81 = ?$
 $1525 - 42 + 9 = ?$
 $1492 = ?$

S57. Ans.(b)

Sol. $(75\% \text{ of } 600) \div 9 + 84 \times 2 = ?$
 $50 + 168 = ?$
 $218 = ?$

S58. Ans.(a)

Sol. $?^2 = 57 + 20\% \text{ of } 560$
 $? = 13$

S59. Ans.(b)

Sol. $\frac{45}{100} \times 400 + \frac{40}{100} \times 120 = ? - 45$
 $180 + 48 = ? - 45$
 $273 = ?$

S60. Ans.(a)

Sol. $\frac{306}{18} + 457 - 19 \times 21 = ? \times 15$
 $\frac{(17+457-399)}{15} = ?$
 $5 = ?$

S61. Ans.(d)

Sol. $\frac{25 \times 35}{\frac{25}{100} \times 100} + ? = 460 + \frac{1}{9} \times 792$
 $\frac{875}{25} + ? = 460 + 88$
 $35 + ? = 548$
 $513 = ?$

S62. Ans.(e)

Sol. $19^2 - 5 \times 2 + \frac{24^2}{18} = ?$
 $361 - 10 + \frac{576}{18} = ?$
 $351 + 32 = ?$
 $383 = ?$

S63. Ans.(d)

Sol. $\sqrt[3]{3375} = 8^3 - ? - \sqrt{1764} + \frac{80}{100} \times 540$
 $15 = 512 - ? - 42 + 432$
 $? = 887$

S64. Ans.(a);

Sol.
 $? = \frac{5612 - 1394}{740} \times 100$
 $? = \frac{4218}{740} \times 100$
 $? = 5.7 \times 100$
 $? = 570$

S65. Ans.(e);

Sol.
 $? = 4207 - 3007$
 $? = 1200$

S66. Ans.(a);

Sol.

$$? = 21 \times 41 - 89$$

$$? = 861 - 89$$

$$? = 772$$

S67. Ans.(a)

$$\text{Sol. } \frac{25}{3} \times \frac{12}{5} + ? = \frac{85}{6} \times \frac{54}{17}$$

$$5 \times 4 + ? = 9 \times 5$$

$$? = 45 - 20$$

$$? = 25$$

S68. Ans.(a)

$$\text{Sol. } 64 \times 89 + ?\% \text{ of } 5300 \approx 6850$$

$$5696 + \frac{?}{100} \times 5300 = 6850$$

$$53 \times ? = 1154$$

$$? = \frac{1154}{53} = 21.77 \approx 22$$

S69. Ans.(d)

$$\text{Sol. } \frac{259}{37} + \sqrt{196} + \sqrt[3]{?} \approx 25$$

$$\sqrt[3]{?} \approx 25 - 7 - 14$$

$$\sqrt[3]{?} \approx 4$$

$$? \approx 64$$

S70. Ans.(a)

$$\text{Sol. } \sqrt{961} + 30 \times 7 + 16 \approx ?^2$$

$$31 + 210 + 16 \approx ?^2$$

$$257 \approx ?^2$$

$$? \approx 16$$

S71. Ans.(d)

$$\text{Sol. } 540/15 \times 384/48 \approx ? \times 144$$

$$? \times 144 \approx 36 \times 8$$

$$? \times 144 \approx 288$$

$$? \approx 2$$

S72. Ans.(d)

Sol.

$$? \times \sqrt{169} \approx 26 \frac{\sqrt{125}}{6} \times 6 \frac{\sqrt{324}}{23}$$

$$? \times 13 \approx \frac{161}{6} \times \frac{156}{23}$$

$$? \approx \frac{182}{13}$$

$$? \approx 14$$

S73. Ans.(c)

Sol.

$$\frac{? + \sqrt{676}}{100} \times 1200 = 500 - 5 \times 4$$

$$? + 26 = \frac{480}{12}$$

$$? = 14$$

S74. Ans.(c)

$$\text{Sol. } 18\% \text{ of } 256 + 35\% \text{ of } 290 - 15\% \text{ of } 385 = ?$$

$$? \approx 46.08 + 101.5 - 57.75$$

$$? \approx 90$$

S75. Ans.(d)

$$\text{Sol. } \sqrt{4090} \approx \sqrt{4096} \approx 64$$

$$\sqrt[3]{12163} \approx \sqrt[3]{12167} \approx 23$$

$$\therefore (?)^2 = \sqrt{4090} \times \sqrt[3]{12163} + 49$$

$$\approx 64 \times 23 + 49$$

$$= 1472 + 49 = 1521 = (39)^2$$

$$\therefore ? = 39$$

S76. Ans.(a)

$$\text{Sol. } 8\frac{4}{7} + 9\frac{3}{4} - 3\frac{5}{8} - ? = 6\frac{29}{56}$$

$$\text{or, } ? = (8 + 9 - 3 - 6) + \left(\frac{4}{7} + \frac{3}{4} - \frac{5}{8} - \frac{29}{56}\right)$$

$$= 8 + \left(\frac{32+42-35-29}{56}\right) = 8 + \frac{10}{56} \approx 8$$

S77. Ans.(e)

$$\text{Sol. } \frac{9}{42} \div \frac{108}{63} \times 328 - \frac{5}{7} + \frac{7}{5} = ?$$

$$\text{or, } ? = \frac{9}{42} \times \frac{63}{108} \times 328 - \frac{5}{7} + \frac{7}{5}$$

$$? = 41 - \frac{5}{7} + \frac{7}{5} \approx 42$$

S78. Ans.(d)

$$\text{Sol. } \frac{16\frac{2}{3} \times \frac{45}{39}}{3\frac{15}{26} - 3\frac{4}{13}} = ?$$

$$\text{or, } ? = \frac{\frac{50}{26} \times \frac{45}{13}}{\frac{93}{26} - \frac{43}{13}} = \frac{\frac{250}{26}}{\frac{93-86}{26}}$$

$$? = \frac{250}{13} \times \frac{26}{7} \approx \frac{500}{7} \approx 71$$

S79. Ans.(a)

Sol.

$$\frac{\sqrt{39\% \text{ of } 796 - 31.05}}{?} = 16.99$$

$$\frac{\sqrt{40\% \text{ of } 800 - 31}}{?} = 17$$

$$\frac{\sqrt{289}}{?} = 17$$

$$\frac{17}{?} = 17$$

$$? = 1$$

S80. Ans.(d)

Sol.

$$\frac{(4)^3 \times (32)^2}{(8)^3} = ?$$

$$\frac{64 \times 1024}{512} = ?$$

$$128 = ?$$

S81. Ans.(b)

Sol.

$$\frac{3.99 \text{ of } 142.99}{26.03} \div \frac{11}{10.09} = ?$$

$$\frac{4 \times 143}{26} \times \frac{10}{11} = ?$$

$$\frac{4 \times 5.5}{1} \times \frac{10}{11} = ?$$

$$20 = ?$$

S82. Ans.(a)

Sol.

$$? + 2198 = 3482 - 681$$

$$? = 2801 - 2198$$

$$? = 603$$

S83. Ans.(e)

$$30\% \text{ of } 180 - 70\% \text{ of } 100 = 90\% \text{ of } 500 - ?$$

$$54 - 70 - 450 = - ?$$

$$-466 = - ?$$

$$? = 466$$

