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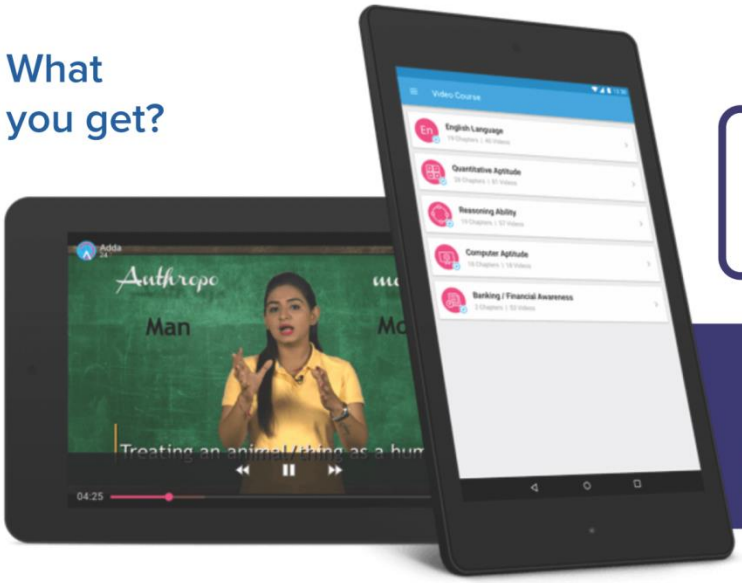

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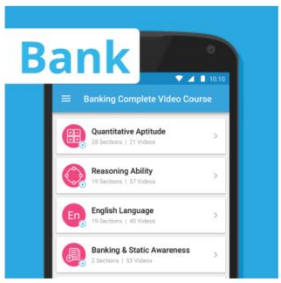

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Directions (1-40): What should come in place of question mark (?) in the following questions?

Q1.75% of 450 + 25% of 850 = ?
(a) 540
(b) 580
(c) 550
(d) 560
(e) 555

Q2. $? = \sqrt{273 - 119 \times 3 + 280}$
(a) 14
(b) 20
(c) 24
(d) 16
(e) 12

Q3. $(4)^{?} = 32 \times 512 \div 128 \times 8$
(a) 3
(b) 3.5
(c) 4
(d) 4.5
(e) 5

Q4. $? + 2\frac{1}{3} + 5\frac{1}{6} - 7\frac{8}{11} = 3\frac{3}{11} + 8\frac{1}{2}$
(a) $12\frac{2}{7}$
(b) $11\frac{5}{6}$
(c) 12
(d) 11
(e) $12\frac{2}{11}$

Q5. $8\frac{1}{3}\%$ of 240 $= 25\%$ of $? - 8\frac{1}{3}\%$ of 384
(a) 280
(b) 216
(c) 240
(d) 256
(e) 208

Q6. ? + 7.9 + 15.27 = 13.45 + 21.72
(a) 11.72
(b) 12.23
(c) 12.72
(d) 12
(e) 11.89

Q7. ? = 161 × 608 ÷ 133 ÷ 16
(a) 42
(b) 46
(c) 48
(d) 44
(e) 50

Q8. ? × 25 = 413 + 113 × 4 +135
(a) 40
(b) 30
(c) 35
(d) 45
(e) 50

Q9. 72% of 420 – 22% of 270 = ?
(a) 234
(b) 240
(c) 251
(d) 253
(e) 243

Q10. ? × 40 = 4734 + 2257 – 1791
(a) 120
(b) 115
(c) 130
(d) 135
(e) 125

Q11. $? = 3\frac{3}{5} \times 8\frac{1}{3} + 1\frac{5}{9} \times 7\frac{5}{7}$
(a) 38
(b) 42
(c) 46
(d) 44
(e) 40

Q12. $\sqrt{7396} + \sqrt{?} = 104$
(a) 256
(b) 400
(c) 361
(d) 289
(e) 324

Q13. $? = \frac{18\times4+12\times3}{5\times4+3.2\times5}$
(a) 2.5
(b) 3
(c) 2.8
(d) 3.2
(e) 3.6

Q14. $? = \frac{2}{3}$ **of** $\frac{7}{9}$ **of** $\frac{5}{16}$ **of 4752**
(a) 660
(b) 740
(c) 700
(d) 770
(e) 690

Q15. 16% of 450 + ?% of 280 = 142
(a) 21
(b) 22
(c) 23
(d) 24
(e) 25

Q16. $\sqrt[3]{5832} + \sqrt[3]{10648} = ?$
(a) 38
(b) 40
(c) 36
(d) 42
(e) 44

Q17. 81 ÷ 9 ÷ 0.9 × 5 ÷ 2 = ?
(a) 1
(b) 20.25
(c) 3.24
(d) 18
(e) 25

Q18. $3^? \times 729 \div 243 = 3^5 \times 81 \times 27 \div 243$
(a) 3
(b) 4
(c) 5
(d) 6
(e) 7

Q19. $? = \frac{255}{102} \times \frac{272}{204} \div \frac{85}{153}$
(a) 7
(b) 4
(c) 5
(d) 6
(e) 9

Q20. 45% of 268 + ? = 286
(a) 138.6
(b) 164.6
(c) 157.3
(d) 139.3
(e) 165.4

Q21. 55% of 320 + 30% of 1080 = 20 × ?
(a) 20
(b) 500
(c) 50
(d) 25
(e) 15

Q22. $(?)^2 \div 12.5 = 6.25 \times 3.125 \div 1.5625$
(a) 1.25
(b) 12.5
(c) 25
(d) 2.5
(e) 6.25

Q23. $8\frac{1}{3} \times 2\frac{2}{5} + ? = 14\frac{1}{6} \times 3\frac{3}{17}$
(a) 25
(b) 20
(c) 16
(d) 23
(e) 27

Q24. ? × 1.3 × 6.5 = 1.17 × 24.7
(a) 2.56
(b) 3.42
(c) 3.61
(d) 3.80
(e) 2.88

Q25. $(25)^{2+?}$ = (625) ÷ 125 × 3125 ÷ 25
(a) 0
(b) 1
(c) –1
(d) 2
(e) –2

Q26. 125% of 320 + 175% of 160 = ? × 4

(a) 190
(b) 180
(c) 170
(d) 200
(e) 185

Q27. $(125)^{1.3} \times (25)^{1.8} \div (5)^{0.5} = (5)^{?}$

(a) 7
(b) 5
(c) 6
(d) 8
(e) 9

Q28. $\sqrt{2401} + \sqrt{4761} - 18\%$ **of 650 = ?**

(a) –1
(b) 1
(c) 2
(d) 3
(e) –2

Q29. 1344 ÷ 14 ÷ 4 × 24 – 25% of 540 + 11% of 1100 = ?

(a) 462
(b) 852
(c) 652
(d) 562
(e) 762

Q30. $4\frac{1}{6} + 3\frac{1}{7} + 5\frac{2}{7} = 2\frac{1}{3} + ?$

(a) $10\frac{11}{42}$
(b) $12\frac{11}{42}$
(c) $9\frac{7}{11}$
(d) $11\frac{12}{42}$
(e) $10\frac{7}{11}$

Q31. $7\frac{1}{3} \times 2\frac{2}{11} + ? = 5\frac{5}{7} \times 11\frac{3}{8}$

(a) 47
(b) 53
(c) 51
(d) 49
(e) 45

Q32. ? + 2.002 + 2.02 = 7.07 + 5.05 + 1.001
(a) 10.001
(b) 9.009
(c) 9.099
(d) 9.108
(e) 9.09

Q33. 0.6 × 72 ÷ 0.9 × 5 = ? + 176
(a) 76
(b) 64
(c) 74
(d) 66
(e) 78

Q34. $\sqrt{?+27\times4+119}=14\frac{2}{3}+6\frac{1}{3}$
(a) 241
(b) 216
(c) 261
(d) 224
(e) 214

Q35. ? + 72% of 340 = 54% of 720
(a) 168
(b) 144
(c) 154
(d) 136
(e) 146

Q36. $\sqrt[3]{343}\times\sqrt[2]{324}\div\sqrt[3]{216}\times0.21=(?)^2$
(a) 0.21
(b) 2.1
(c) 21
(d) 14
(e) 1.4

Q37. $?+2\frac{1}{3}+5\frac{2}{7}+3\frac{2}{3}=8\frac{2}{7}+5\frac{1}{5}+6\frac{4}{5}$
(a) 9
(b) 11
(c) $10\frac{1}{7}$
(d) $9\frac{4}{7}$
(e) $8\frac{6}{7}$

Q38. 72% of 198 + 14% of 396 = ?
(a) 188
(b) 176
(c) 198
(d) 192
(e) 196

Q39. ? + 273 + 549 – 327 = 1117 + 78 × 4
(a) 944
(b) 914
(c) 936
(d) 924
(e) 934

Q40. $(?)^2 = \frac{16}{3} \times \frac{27}{8} \div \frac{81}{32}$
(a) 6
(b) $\frac{27}{4}$
(c) 9
(d) $\frac{8}{3}$
(e) 3

Q41. $3\frac{1}{2} + 7\frac{1}{8} + 5\frac{1}{6} = ? + 3\frac{2}{3} + 4\frac{5}{8} - 5\frac{1}{6}$
(a) $13\frac{1}{3}$
(b) $12\frac{1}{3}$
(c) 12
(d) $12\frac{2}{3}$
(e) $13\frac{2}{3}$

Q42. ? × 5 ÷ 0.125 = 6.25 × 12.5 ÷ 2.5
(a) 0.15625
(b) 0.78125
(c) 7.8125
(d) 1.5625
(e) 0.078125

Q43. ?+ 121.12 = 221.12 + 212.21 + 211.121
(a) 523.321
(b) 423.321
(c) 523.331
(d) 423.331
(e) None of these

Q44. 35% of 420 + 45% 720 = ? % of 1570
(a) 40
(b) 35
(c) 20
(d) 25
(e) 30

Q45. $? = \frac{2}{5}$ **of** $\frac{7}{9}$ **of** $\frac{3}{16}$ **of** $85\frac{5}{7}$
(a) 6
(b) 5
(c) 8
(d) 3
(e) 9

Q46. $[(165)^2 \div 55 \times 28] \div ? = 35 \times 33$
(a) 9
(b) 12
(c) 18
(d) 27
(e) 15

Q47. $57^2 + ?^2 = (150)^2 - 10602$
(a) 95
(b) 89
(c) 91
(d) 93
(e) 97

Q48. $(6)^{?-3} = 32 \times 81 \div 8 \div 27 \times 108$
(a) 6
(b) 4
(c) 7
(d) 8
(e) 9

Q49. 77.07 + 7.077+ 707.7 = ? + 0.077+7.707
(a) 770.67
(b) 784.063
(c) 754.907
(d) 847.756
(e) None of these

Q50. $3\frac{3}{23}\%$ of $1\frac{3}{8}\%$ of $690 = 3\frac{1}{8}\%$ of $\frac{8}{11}\%$ of $1320 \times ?$

(a) 1.21
(b) 1.05
(c) 1
(d) 0.99
(e) 0.95

Q51. $\frac{5}{11}$ of $297 \times 39 \div 13 + ? = 299 \div 23 + 453$

(a) 61
(b) 199
(c) 107
(d) 126
(e) 161

Q52. $15 \times 2^5 + \frac{1}{?}$ of $1770 - 1400 \div 7 = 575$

(a) 5
(b) 4
(c) 8
(d) 6
(e) 10

Q53. $(?)^2 + 440 \div 8 \times 3 - 381 = 27 \times (16 + 24)$

(a) 35
(b) 32
(c) 36
(d) 31
(e) 42

Q54. $\frac{1}{(6859)^{\frac{1}{3}}}$ of $2679 + 243 \times ? = 66\frac{2}{3}\%$ of $\frac{4797}{2}$

(a) 5
(b) 6
(c) 7
(d) 8
(e) 12

Q55. $16\frac{4}{5}\%$ of $3500 \div \sqrt{784} = (?)^{\frac{1}{3}}$

(a) 9,571
(b) 9,921
(c) 9,252
(d) 9,261
(e) 9442

Q56. 225% of 5468 – 87% of 3700 = ?
(a) 9,218
(b) 9,368
(c) 9,084
(d) 9,628
(e) 9448

Q57. 1532+ 857 + 496 – ? = 2005
(a) 880
(b) 870
(c) 980
(d) 788
(e) 780

Q58. 19.2 × 6 + 8.9 – 13.3 = ? + 37.9
(a) 75.7
(b) 81.6
(c) 74.8
(d) 72.9
(e) 85.2

Q59. $\frac{67}{3}$% of 2100 + 32% of 350 = ? – 207
(a) 878
(b)788
(c) 877
(d) 792
(e) 787

Q60. 14% of 29200 = ? × 16
(a) 265.5
(b) 250.5
(c) 255.5
(d) 357.2
(e) 270.2

Q61. 13% of 1100 + 17% of 2100 = ? + 26% of 350
(a) 409
(b) 411
(c) 413
(d) 415
(e) 417

Q62. $\frac{1}{3}$ of ? + $\frac{4}{7}$ of $\frac{11}{14}$ of 539 = 31% of 2000
(a) 1,234
(b) 1,134
(c) 1,186
(d) 1,143
(e) 1,320

Q63. $\sqrt[4]{62,50,000}-\sqrt[3]{3375}=\sqrt{?}$

(a) 1,296

(b) 1,156

(c) 1,369

(d) 1,225

(e) 1,245

Q64. $1\frac{2}{5}+2\frac{1}{7}=\ ?\ +2\frac{1}{2}$

(a) $3\frac{3}{70}$

(b) $3\frac{4}{35}$

(c) $2\frac{3}{70}$

(d) $1\frac{17}{70}$

(e) $1\frac{3}{70}$

Q65. $\sqrt{3136}+\sqrt{625}=?^2$

(a) 8

(b) 11

(c) 9

(d) 7

(e) 15

Q66. 53457 + 19743 – 49850 = ?

(a) 24,350

(b) 23,350

(c) 25,330

(d) 23,550

(e) 23,840

Q67. 13.57 + 29.49 + 23.46 = ? + 50.79

(a) 16.73

(b) 13.73

(c) 12.73

(d) 15.73

(e) 17.37

Q68. $1331 \times 121 \times 0.11 = (1.1)^? \times 11000$
(a) 5
(b) 7
(c) 4
(d) 3
(e) 8

Q69. $9.6 \div 0.24 \times 2.5 + 150 = ?$
(a) 255
(b) 250
(c) 260
(d) 265
(e) 245

Q70. $\sqrt{?\%\ of\ 325} = 26$
(a) 211
(b) 210
(c) 208
(d) 212
(e) 216

Q71. $999 \div 3000 + 8888 \div 4400 = ?$
(a) 2.353
(b) 23.53
(c) 0.2353
(d) 235.3
(e) 3.253

Q72. $\sqrt{21.16} \times \sqrt{6.25} = ? + \sqrt{10.24}$
(a) 3.8
(b) 8.3
(c) 9.6
(d) 7.6
(e) 6.8

Q73. $?^3 - \frac{1331\sqrt{11}}{\sqrt{?}} = 0$
(a) 8
(b) 9
(c) 14
(d) 12
(e) 11

Q74. 233% of 30 + 153% of 70 – 87% of 200 = ?
(a) 8
(b) 6
(c) 4
(d) 5
(e) 3

Q75. 5.6 × 2.8 + 6.3 × 0.9 – 2.5 × 1.5 = ?
(a) 15.6
(b) 16.7
(c) 19.4
(d) 17.6
(e) 1.76

Q76. ? % $\mathbf{4800 - \frac{2}{7}\ of\ 182 = \frac{2}{5}\ of\ 830}$
(a) 6
(b) 4
(c) 8
(d) 12
(e) None of these

Q77. $\mathbf{3^{?+3} = 243 \div 9 \times 729}$
(a) 10
(b) 8
(c) 6
(d) 5
(e) None of these

Q78. 0.0009 + 0.009 + 0.999 = ?
(a) 1.0089
(b) .0089
(c) 2.0089
(d) 1.0088
(e) None of these

Q79. $\mathbf{2\frac{1}{3} \times 5\frac{3}{8} \times \frac{12}{21} \times 84} = ?$
(a) 621
(b) 610
(c) 702
(d) 602
(e) None of these

Q80. 9857 + 11839 – 7891= ? + 10889
(a) 2916
(b) 3016
(c) 3156
(d) 3316
(e) None of these

Q81. $\frac{(153^3+147^3)}{(153^2-153\times147+147^2)} = ?$
(a) 310
(b) 400
(c) 300
(d) 305
(e) None of these

Q82. $? = \sqrt{(1836 \div 4 \div 3 - 3) \times 6}$
(a) 105
(b) 75
(c) 85
(d) 80
(e) 30

Q83. $39\%\ \text{of}\ \frac{400}{13} + 580 \times \frac{3}{4} - 145 = ?$
(a) 306
(b) 302
(c) 315
(d) 298
(e) None of these

Q84. $\frac{5}{9}\ \text{of}\ \left(2\frac{3}{5}\ \text{of}\ 3\frac{3}{11}\ \text{of}\ 55\right) = ?$
(a) 245
(b) 250
(c) 260
(d) 315
(e) None of these

Q85. $1 + \frac{1}{1+\frac{1}{1+\frac{3}{2}}} = ?$
(a) $1\frac{5}{7}$
(b) $2\frac{3}{7}$
(c) 7
(d) 5
(e) None of these

Q86. 2151.46 + 5437.54 – 6795 = ?
(a) 974
(b) 794
(c) 796
(d) 790
(e) 792

Q87. $\frac{2}{5}$ **of 215** $+\frac{3}{4}$**of 128** $-\frac{4}{7}$**of 147** $=?$
(a) 94
(b) 96
(c) 98
(d) 92
(e) 100

Q88. 56% of 700 + 64% of 900 – 40% of 290 = ?
(a) 848
(b) 852
(c) 850
(d) 854
(e) 846

Q89. 7777 ÷ 11 + 888 ÷ 6 = ?
(a) 855
(b) 857
(c) 853
(d) 850
(e) 852

Q90. $\sqrt[3]{1331} \times \frac{3}{11}\%$ **of 14300** $=?$
(a) 426
(b) 427
(c) 431
(d) 429
(e) 432

Q91. $3\frac{2}{5}$**of** $5\frac{5}{17} + 5\frac{4}{13} \times 2\frac{6}{23} = ?$
(a) 25
(b) 30
(c) 40
(d) 20
(e) None of these

Q92. $\sqrt{\textbf{81\% of } \frac{400}{3} + \textbf{78\% of } \frac{300}{2}} = ?$

(a) 17
(b) 18
(c) 15
(d) 13
(e) None of these

Q93. ?% of 300 + 45% of 440 = $\frac{?}{7}$ of 63 – $\frac{3}{17}$ of 578

(a) 50
(b) 55
(c) 60
(d) 45
(e) None of these

Q94. $\sqrt{2401} + \sqrt{1024} = ?^2$

(a) 7
(b) 9
(c) 8
(d) 6
(e) 11

Q95. 37750 ÷ 50 + 41455 ÷ 5 + 27540 ÷ 20 = ?

(a) 10652
(b) 10523
(c) 10423
(d) 11020
(e) 9985

Q96. 63% of 210 + 47% of 310 – 30% of 175 = ?

(a) 224
(b) 225.5
(c) 220
(d) 227.5
(e) 228.5

Q97. ? of $\frac{3}{7}$ – 42% of 250 = 315

(a) 970
(b) 1000
(c) 980
(d) 985
(e) 975

Q98. $\frac{7}{17}$ of $\frac{102}{133}$ of 304 = ?
(a) 92
(b) 88
(c) 94
(d) 96
(e) 98

Q99. 341.46 + 273.43 + 583.11 – 881 = ?
(a) 321
(b) 317
(c) 319
(d) 313
(e) 314

Q100. $\sqrt{?} - 423 \div 9 \times 13 + 11\%$ of $5000 = \frac{1}{3}$ of 57
(a) 8100
(b) 3600
(c) 6400
(d) 6436
(e) 6600

Q101. $(0.7) \times (4.9) \times (0.343) = (0.7)^{?} \times 10$
(a) 6
(b) 7
(c) 8
(d) 4
(e) 5

Solutions

S1. Ans.(c)

Sol. $75\% \times 450 + 25\% \times 850 = ?$

$? = \frac{25}{100}[3 \times 450 + 850] = \frac{1}{4}[2200] = 550$

S2. Ans.(a)

Sol. $? = \sqrt{273 - 357 + 280} = \sqrt{196} = 14$

S3. Ans.(e)

Sol. $(4)^{?} = \frac{32 \times 512 \times 8}{128} = 1024$

$(4)^{?} = (4)^{5}$

$\Rightarrow ? = 5$

S4. Ans.(c)

Sol. $? + 2 + \frac{1}{3} + 5 + \frac{1}{6} - 7 - \frac{8}{11} = 3 + \frac{3}{11} + 8 + \frac{1}{2}$

$? = 11 + \frac{3}{11} + \frac{8}{11} + \frac{1}{2} - \frac{1}{3} - \frac{1}{6}$

$= 12 + \frac{3 - 2 - 1}{6} = 12$

S5. Ans.(e)

Sol. $8\frac{1}{3}\% \times 240 + 8\frac{1}{3}\% \text{ of } 384 = \frac{25}{100} \times ?$

$\frac{?}{4} = \frac{25}{300}[624]$

$? = 208$

S6. Ans.(d)

Sol.

$? + 23.17 = 35.17$

$? = 35.17 - 23.17 = 12$

S7. Ans.(b)

Sol. $? = \frac{161 \times 608}{133 \times 16} = 46$

S8. Ans.(a)

Sol. $25 \times ? = 413 + 452 + 135$

$? = \frac{1000}{25} = 40$

S9. Ans.(e)

Sol.

302.4 – 59.4 = ?

? = 243

S10. Ans.(c)

Sol. ? × 40 = 6991 – 1791

$?=\frac{5200}{40}=130$

S11. Ans.(b)

Sol. $?=\frac{18}{5}\times\frac{25}{3}+\frac{14}{9}\times\frac{54}{7}$

= 6 × 5 + 2 × 6

= 30 + 12

= 42

S12. Ans.(e)

Sol. $\sqrt{?}=104-\sqrt{7396}$

$\sqrt{?}=104-86$

$?=(18)^2=324$

S13. Ans.(b)

Sol. $?=\frac{18\times4+12\times3}{5\times4+3.2\times5}=\frac{72+36}{20+16}$

$=\frac{108}{36}=3$

S14. Ans.(d)

Sol. $?=\frac{2}{3}\times\frac{7}{9}\times\frac{5}{16}\times4752=10\times7\times11=770$

S15. Ans.(e)

Sol. $\frac{16}{100}\times450+\frac{?}{100}\times280=142$

$?\times\frac{28}{10}=142-72$

$?=\frac{70}{28}\times10=25$

S16. Ans.(b)

Sol. $?=\sqrt[3]{5832}+\sqrt[3]{10648}=18+22=40$

S17. Ans.(e)

Sol. $? = \frac{81 \times 5}{9 \times 0.9 \times 2}$

? = 25

S18. Ans.(c)

Sol. $3^{?} \times \frac{729}{243} = \frac{3^5 \times 81 \times 27}{243}$

$3^{?} = \frac{3^5 \times 3^4 \times 3^3}{3^6}$

$3^{?} = 3^{5+4+3-6} \Rightarrow 3^6$

? = 6

S19. Ans.(d)

Sol. $? = \frac{255 \times 272 \times 153}{102 \times 204 \times 85} = 6$

S20. Ans.(e)

Sol. ? = 286 – 45% of 268

= 286 – 120.6

? = 165.4

S21. Ans.(d)

Sol. $\frac{55}{100} \times 320 + \frac{30}{100} \times 1080 = 20 \times ?$

$176 + 324 = 20 \times ?$

$? = \frac{500}{20} = 25$

S22. Ans.(b)

Sol. $(?)^2 \div 12.5 = 6.25 \times 3.125 \div 1.5625$

$(?)^2 = \frac{6.25 \times 3.125 \times 12.5}{1.5625}$

$(?)^2 = \frac{625 \times 3125 \times 125}{15625 \times 100}$

$(?)^2 = 125 \times \frac{125}{100}$

$(?)^2 = 12.5 \times 12.5$

? = 12.5

S23. Ans.(a)

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

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

? = 45 – 20

? = 25

S24. Ans.(b)

Sol. $? = \frac{117 \times 247}{13 \times 65 \times 10} = 3.42$

S25. Ans.(a)

Sol. $(25)^{2+?} = \frac{625}{125} \times \frac{3125}{25}$

$= 5 \times 125$

$= 625 \Rightarrow (25)^2$

$2 + ? = 2$

$? = 0$

S26. Ans.(c)

Sol. $125\% \times 320 + 175\% \times 160 = ? \times 4$

$4 \times ? = \frac{5}{4} \times 320 + \frac{7}{4} \times 160$

$? = \frac{400 + 280}{4} = 170$

S27. Ans.(a)

Sol. $(5)^{3.9} \times \frac{(5)^{3.6}}{(5)^{0.5}} = (5)^?$

$(5)^7 = (5)^?$

$\therefore ? = 7$

S28. Ans.(b)

Sol. $49 + 69 - \frac{18}{100} \times 650 = ?$

$? = 118 - 9 \times 13$

$? = 118 - 117 = 1$

S29. Ans.(d)

Sol. $? = \frac{1344}{14 \times 4} \times 24 - \frac{25}{100} \times 540 + \frac{11}{100} \times 1100$

$= 576 + 121 - 135$

$? = 562$

S30. Ans.(a)

Sol. $? = (4 + 3 + 5 - 2) + \left[\frac{1}{6} + \frac{1}{7} + \frac{2}{7} - \frac{1}{3}\right]$

$= 10 + \left[\frac{7 + 6 + 12 - 14}{42}\right]$

$? = 10 + \left[\frac{11}{42}\right] = 10\frac{11}{42}$

S31. Ans.(d)

Sol. $7\frac{1}{3} \times 2\frac{2}{11} + ? = 5\frac{5}{7} \times 11\frac{3}{8}$

$\frac{22}{3} \times \frac{24}{11} + ? = \frac{40}{7} \times \frac{91}{8}$

16 + ? = 65

? = 65 – 16 = 49

S32. Ans.(c)

Sol. ? + 4.022 = 7.07 + 5.05 + 1.001

? = 13.121 – 4.022

? = 9.099

S33. Ans.(b)

Sol. $\frac{0.6 \times 72 \times 5}{0.9} = ? + 176$

240 – 176 = ?

? = 64

S34. Ans.(e)

Sol. $\sqrt{? + 108 + 119} = 14 + 6 + \frac{2}{3} + \frac{1}{3}$

$\sqrt{? + 227} = 21$

? + 227 = 441

? = 214

S35. Ans.(b)

Sol. ? + 72% × 340 = 54% × 720

? = 388.8 – 244.8

? = 144

S36. Ans.(b)

Sol. $\frac{7 \times 18}{6} \times 0.21 = (?)^2$

21 × .21 = (?)²

? = 2.1

S37. Ans.(a)

Sol. $? + 2 + \frac{1}{3} + 5 + \frac{2}{7} + 3 + \frac{2}{3} = 8 + \frac{2}{7} + 5 + \frac{1}{5} + 6 + \frac{4}{5}$

$? + 10 + 1 + \frac{2}{7} = 19 + \frac{2}{7} + 1$

? = 20 – 11 = 9

S38. Ans.(c)

Sol. ? = 72% × 198 + 14% × 396

$= \frac{198}{100}[72 + 14 \times 2]$

$= \frac{198}{100} \times 100 = 198$

S39. Ans.(e)

Sol. ? + 822 – 327 = 1117 + 312

? = 1117 + 312 – 822 + 327

?= 934

S40. Ans.(d)

Sol. $(?)^2 = \frac{16}{3} \times \frac{27}{8} \times \frac{32}{81} = \frac{64}{9}$

$? = \pm\frac{8}{3}$

S41. Ans.(d)

Sol. $3 + \frac{1}{2} + 7 + \frac{1}{8} + 5 + \frac{1}{6} = ? + 3 + \frac{2}{3} + 4 + \frac{5}{8} - 5 - \frac{1}{6}$

$15 + \frac{1}{2} + \frac{1}{8} + \frac{1}{6} - 2 - \frac{2}{3} - \frac{5}{8} + \frac{1}{6} = ?$

$13 + \frac{4+1-5}{8} + \frac{1-4+1}{6} = ?$

$? = 13 - \frac{2}{6} = 12\frac{2}{3}$

S42. Ans.(b)

Sol. $? \times \frac{5}{0.125} = \frac{6.25 \times 12.5}{2.5}$

$? = \frac{6.25 \times 5 \times 0.125}{5}$

? = 0.78125

S43. Ans.(c)

Sol. ? + 121.12 = 221.12 + 212.21 + 211.121

? + 121.12 = 644.451

? = 523.331

S44. Ans.(e)

Sol. $\frac{35}{100} \times 420 + \frac{45}{100} \times 720 = \frac{?}{100} \times 1570$

147 + 324 = ? ×15.7

$? = \frac{471}{157} \times 10 = 30$

S45. Ans.(b)

Sol. $? = \frac{2}{5} \times \frac{7}{9} \times \frac{3}{16} \times \frac{600}{7}$

?= 5

S46. Ans.(b)

Sol. $\frac{165 \times 165 \times 28}{55 \times ?} = 35 \times 33$

$? = \frac{3 \times 165 \times 28}{35 \times 33} = 12$

? = 12

S47. Ans.(d)

Sol. $57^2 + ?^2 = (150)^2 - 10602$

$?^2$=22500–10602–3249

$?^2$= 8649

? = ±93

S48. Ans.(c)

Sol. $(6)^{?-3} = \frac{32 \times 81 \times 108}{8 \times 27} = 1296 = (6)^4$

? – 3 = 4

? = 7

S49. Ans.(b)

Sol. 77.07 + 7.077+ 707.7 = ? + 0.077+ 7.707

? = 791.847 – 7.784

? = 784.063

S50. Ans.(d)

Sol. $\frac{72}{23}\% \times \frac{11}{8}\% \times 690 = \frac{25}{8}\% \times \frac{8}{11}\% \times 1320 \times ?$

$? = 9 \times 11 \times 30 \times \frac{11}{25} \times \frac{1}{1320}$

? = 0.99

S51. Ans.(a)

Sol. 405 + ? = 466

⇒ ? = 61

S52. Ans.(d)

Sol. $480 + \frac{1770}{?} - 200 = 575$

$\Rightarrow ? = \frac{1770}{295}$

⇒ ? = 6

S53. Ans.(c)

Sol. $?^2 = 1080 + (381 - 165) = 1,296$

$\Rightarrow ? = \pm 36$

S54. Ans.(b)

Sol. $\frac{1}{19} \times 2679 + 243 \times ? = 1599$

$\Rightarrow ? = 6$

S55. Ans.(d)

Sol. $(?)^{\frac{1}{3}} = 21$

$\Rightarrow ? = 9,261$

S56.Ans.(c)

Sol. $? = 12,303 - 3,219$

$= 9,084$

S57. Ans.(a)

Sol. $? = 880$

S58. Ans.(d)

Sol. $? = 110.8 - 37.9$

$? = 72.9$

S59. Ans.(b)

Sol. $? = 581 + 207 = 788$

S60. Ans.(c)

Sol. $? = \frac{14}{100} \times \frac{29200}{16}$

$= 255.5$

S61. Ans.(a)

Sol. $? = 143 + 357 - 91$

$= 409$

S62. Ans. (b)

Sol. $\frac{1}{3} \times ? = 620 - 242$

$\Rightarrow ? = 1,134$

S63. Ans. (d)

Sol. $\sqrt{?} = 50 - 15$

$\Rightarrow ? = 35^2$

$\Rightarrow ? = 1{,}225$

S64. Ans. (e)

Sol. $? = (1+2-2) + \left(\frac{2}{5}+\frac{1}{7}-\frac{1}{2}\right)$

$= 1 + \frac{(28+10-35)}{70}$

$= 1\frac{3}{70}$

S65. Ans. (c)

Sol. $?^2 = 56 + 25$

$\Rightarrow ?^2 = 81$

$\Rightarrow ? = \pm 9$

S66. Ans. (b)

Sol. $? = 23, 350$

S67. Ans. (d)

Sol. $? = 66.52 - 50.79$

$= 15.73$

S68. Ans. (a)

Sol. $(1.1)^? = \left(\frac{11}{10}\right)^5 \Rightarrow ? = 5$

S69. Ans. (b)

Sol. $? = 100 + 150$

$= 250$

S70. Ans. (c)

Sol. $\sqrt{\frac{13?}{4}} = 26$

$\Rightarrow ? = \frac{676 \times 4}{13}$

$\Rightarrow ? = 208$

S71. Ans. (a)
Sol. ? = 0.333 + 2.02
= 2.353

S72. Ans. (b)
Sol. ? = 4.6 × 2.5 – 3.2
? = 8.3

S73. Ans. (e)
Sol. $?^{\frac{7}{2}} = (11)^{\frac{7}{2}}$
$\Rightarrow$? = 11

S74. Ans. (e)
Sol. ? = 69.9 + 107.1 – 174
? = 3

S75. Ans. (d)
Sol. ? = 21.35 – 3.75 = 17.6

S76. Ans.(c)
Sol. ? × 48 = 332 + 52
$\Rightarrow$ $? = \frac{384}{48}$
$\Rightarrow$? = 8

S77. Ans.(c)
Sol. $3^{?+3} = 3^9$
$\Rightarrow$? = 6

S78. Ans.(a)
Sol. ? = 1.0089

S79. Ans.(d)
Sol. $? = \frac{7}{3} \times \frac{43}{8} \times \frac{12}{21} \times 84$
= 602

S80. Ans.(a)
Sol. ? = 21696-18780
? = 2916

S81. Ans.(c)
Sol. ? = (153 + 147)
? = 300

S82. Ans.(e)
Sol. $? = \sqrt{\left(\frac{1836}{4\times3} - 3\right) \times 6}$
$? = \sqrt{900}$
? = 30

S83. Ans.(b)
Sol. $? = \frac{39}{100} \times \frac{400}{13} + 580 \times \frac{3}{4} - 145$
= 302

S84. Ans.(c)
Sol. $? = \frac{5}{9} \times \left(\frac{13}{5} \times \frac{36}{11} \times 55\right)$
$= 260$

S85. Ans.(a)
Sol. $? + 1 + \frac{1}{1+\frac{2}{5}}$
$= 1 + \frac{5}{7}$
$= 1\frac{5}{7}$

S86. Ans.(b)
Sol. ? = 794

S87. Ans.(c)
Sol. ? = 86 + 96 – 84 = 98

S88. Ans.(b)
Sol. ? = 56 × 7 + 64 × 9 – 4 × 29
= 852

S89. Ans.(a)
Sol. ? = 707 + 148
= 855

S90. Ans.(d)
Sol. $? = 11 \times \frac{3}{1100} \times 14300 = 429$

S91. Ans.(b)

Sol. $? = \frac{17}{5} \times \frac{90}{17} + \frac{69}{13} \times \frac{52}{23}$

= 18 + 12

= 30

S92. Ans.(c)

Sol. $? = \sqrt{108 + 117}$

$= \sqrt{225}$

? = 15

S93. Ans.(a)

Sol. ? × 3 + 198 = ? × 9 – 102

$\Rightarrow ? = \frac{300}{6}$

⇒ ? = 50

S94. Ans.(b)

Sol. $?^2 = 49 + 32$

$\Rightarrow ?^2 = 81$

$\Rightarrow ? = \pm 9$

S95. Ans.(c)

Sol.

? = 755 + 8291 + 1377

= 10,423

S96. Ans.(b)

Sol.

? = 132.3 + 145.7 – 52.5

= 225.5

S97. Ans.(c)

Sol. $? = \frac{(315+105)}{3} \times 7$

? = 980

S98. Ans.(d)

Sol. $? = \frac{7}{17} \times \frac{102}{133} \times 304$

= 96

S99. Ans.(b)

Sol. ? = 1198 – 881

= 317

S100. Ans.(c)

Sol. $\sqrt{?} - 611 + 550 = 19$

$\Rightarrow \sqrt{?} = 80$

$\Rightarrow ? = 6400$

S101. Ans.(a)

Sol. $7^{?} = \frac{7}{10} \times \frac{49}{10} \times \frac{343}{1000} \times \frac{1}{10}$

$= \left(\frac{7}{10}\right)^{6} \Rightarrow ? = 6$