1.(C)

$= 5 + \frac{1}{7} - 1$

$= \frac{35+1-7}{7}$

$\Rightarrow \frac{29}{7}$

2.(A)

= 81 + 2 + 13 + 1

= 97

3.(B)

$\Rightarrow 7^{19 + 4.5 - 10.5} = 7^x$

$\Rightarrow 7^{13} = 7^x$

$\Rightarrow$ x = 13

4.(B)

$\frac{216 \times 81}{18}$ = 972

5. (B)

475+1317.50-918

=874.50

6.(B)

$1849 - \frac{4}{100} \times 1030 + \frac{13}{100} \times 1200 - \frac{9}{100} \times 14$

$\Rightarrow$ 1849 – 41.2 + 156 – 1.26

$\Rightarrow$ 19.62%

7. (B)

$\Rightarrow$ 466.088 – ? + 64.72 = 508.37

$\Rightarrow$ 508.37 – 530.808

$\Rightarrow$ 22.438

8.(E)

6482.24 + 1448.56 + ? = 9526.26

?= 9526.26 – 6482.24 – 1448.56

$\Rightarrow$ 1595.46

9.(D)

$= \frac{23}{3} - \left[\frac{15}{4} - \frac{44}{3}\right]$

$\Rightarrow \frac{223}{12}$

10.(B)

$= \frac{23}{3} + \frac{9}{4} \times \frac{2}{3} \times \frac{15}{7} + \frac{9}{11}$

$= \frac{23}{3} + \frac{45}{14} + \frac{9}{11} = \frac{5405}{462}$

11. (C)

12.35 ÷ 380 – 7.5 of 5.8 + (8.988 ÷ 8 ÷ 4) – $(33.64)^{0.5}$ = ?

$\frac{12.35}{380} - 7.5 \times 5.8 + .280875 - 5.8$ = ?

0.0325 – 43.5 + .280875 – 5.8 = ?

? = – 48.986625

12. (C)

$\frac{2222}{20} + \frac{645}{25} + \frac{3991}{26}$ = ?

? = 111.1 + 25.8 + 153.5

? = 290.4

13.(B)

$$\frac{(0.25)^6}{(0.125)^2} \times (0.5)^4 = (0.5)^{?+3}$$

$(0.5)^{12} \div (0.5)^6 \times (0.5)^4 = (0.5)^{?+3}$

$(0.5)^{12-6+4} = (0.5)^{?+3}$

$(0.5)^{10} = (0.5)^{?+3}$

$10 = ? + 3$

$? = 7$

14. (E)

$$? = \frac{(62.25 \div 2.5) + (12.5 \div 0.5)}{(0.75 \times 9) + (3.5 \times 3.5)}$$

$$? = \frac{24.9 + 25}{6.75 + 12.25}$$

$$? = \frac{49.9}{19} = \frac{499}{190}$$

$$? = 2\ \frac{119}{190}$$

15. (B)

62.5% of 800 – 33.33% of 960 = 125% of x

125% of $x = \frac{800}{8} \times 5 - \frac{960}{3}$

125% of x = 500–320

$x = 180 \times \frac{100}{125}$

x = 144

16. (A)

$(2)^5 \times (32)^3 \div (64)^2 = (40 \div 10)^{?+1}$

$(2)^5 \times (2)^{15} \div (2)^{12} = (4)^{?+1}$

$(2)^8 = (2)^{2x+2}$

Base is same

8 = 2x+2

x = 3

17. (C)

$? - 26 = \left(\frac{47}{3}\right) + \left(\frac{100}{3}\right) + \left(\frac{75}{4}\right) \times \left(\frac{108}{15}\right)$

$? - 26 = \left(\frac{47+100}{3}\right) + 135$

? –26 = 49+135

? = 210

18. (D)

$\frac{2}{5}$ of $\frac{6}{5}$ of $\frac{5}{12}$ of 44% of 6250 = ?

= 550

19. (A)

$\sqrt{2916} + \sqrt{1296} = 4.5 \times x$

$54 + 36 = 4.5 \times x$

$x = 90 \times \frac{10}{45}$

= 20

20. (E)

$\left(\frac{8}{3} \times \frac{15}{4}\right) + \left(\frac{52}{9} \times \frac{36}{13}\right) + \left(\frac{15}{2} \times \frac{24}{10}\right) = ?$

= 10+16+18

= 54

21.(C)

987 + 354 = x + 147

x = 1185

22.(D)

$(2^4 \times 5^{12} \times 10^{6.8} \times 5^{0.2} \times 2^{0.2} \times 4^6) \times \frac{1}{16} = 10^?$

$5^{12} \times 10^{6.8} \times 5^{0.2} \times 2^{0.2} \times 4^6 = 10^x$

$5^{12+0.2} \times 10^{6.8} \times 2^{0.2} \times \left(2^2\right)^6 = 10^x$

$5^{12.2} \times 10^{6.8} \times 2^{12.2} = 10^x$

$10^{19} = 10^x$

x = 19

23.(C)

$(568.2 + 243.8) \div ? = 769.02 - 566.02$

$\frac{812}{x} = 203$

x = 4

24.(D)

1/5*(625 + 1225 – 900) = x

x = 190

25.(C)

$\frac{20}{100} \times 5550 + x\% \times 2500 = 5.55$

$25 \times x = \frac{1110}{5.55}$

25 × x = 200

x = 8

26.(B)

$(23 \times 23) + 12 \times 8 = x^2$

$529 + 96 = x^2$

$625 = x^2$

x = 25

27.(E)

$87 + 914 - 338 = \frac{75}{100} \times x$

$\frac{663 \times 100}{75} = 884$

28.(B)

x % × 1050 = 725 – 315

x = 20

29. (A)

$? = \sqrt{324 \times \sqrt{20 \times 50 \times 8 \times 20}} + 25\% \text{ of } 32$

$? = \sqrt{324 \times 20 \times 20} + 8$

? = 368

30.(E)

$\frac{360 \times 288}{15 \times 18} = \frac{x^2}{6}$

$x^2 = 2304$

x = 48

31.(B)

48.2 + 174.2 + 47.6 = x × 27

270 = x × 27

x = 10

32.(D)

$(4^2)^{6.3} \times (4 \times 2)^{1.6} \times (4^2)^{7.1} \times (4^2)^6 \times (4 \times 2)^{2.4} 4^{0.4} = 4^x$

$4^{43} \times 2^4 = 4^x$

43 + 2 = 45

$\Rightarrow$ x = 45

33.(B)

101 + 25.4 + 153.4

$\Rightarrow$ 279.8

34.(C)

$1121 = \frac{8}{100} \times \left(\frac{15}{100} \times 7200\right) + x$

1121 = 86.4 + x

$\Rightarrow$ x = 1034.6

35.(E)

$\frac{12}{100} \times \left[\frac{3}{4} \times \left[\frac{1}{4} \times (48 \times 8)\right]\right]$

$= \frac{3}{25} \times \left[\frac{3}{4} \times 96\right]$

$= \frac{3}{25} \times 3 \times 24$

$= \frac{216}{25} = 8.64$

36. (C)

$\frac{5}{9} + \frac{14}{5} - \frac{33}{45} = ?$

$\frac{25 + 126 - 33}{45} = ?$

$\frac{118}{45} = ?$

37.(B)

$937 + \frac{(9)^3}{27} \times 3^4 = ?$

$937 + (9)^3 \times 3 = ?$

937 + 729 × 3 = ?

937 + 2187 = ?

3124 = ?

38.(B)

$? = 75\% \text{ of } \left(\frac{15}{100} \times 900\right) - 25\% \text{of} \left(\frac{35}{100} \times 500\right)$

$? = \left(\frac{75}{100} \times 135\right) - \left(\frac{25}{100} \times 175\right)$

? = 101.25 – 43.75

?= 57.5

39.(C)

$? = \left\{\frac{202}{37} \times \frac{259}{52} \times \frac{78}{7}\right\} + \left(\frac{11}{4}\right)$

$? = \left(303 + \frac{11}{4}\right) = \frac{1223}{4}$

$\Rightarrow$305.75

40.(D)

$\sqrt{7056} + 13 \times 24 - 1157 \div 13 = ?$

84 + 13 × 24 – 1157 ÷13 = ?

84 + 13 × 24 – 89 = ?

84 + 312 – 89 = ?

396 – 89 = ?

$\Rightarrow$? = 307

41.(A)

$\left(\frac{3}{2}\times\frac{32}{6}\times\frac{3}{8}\right)+\left(\frac{3}{8}\times\frac{24}{11}\times\frac{22}{9}\right)=?$

$= 3 + 2$

$\Rightarrow 5$

42.(C)

$(3000+80+6160)\div ? = 330$

$= \frac{9240}{330}$

$\Rightarrow 28$

43.(D)

$? \times (224.5+285.5)=10200$

$\frac{10200}{510} = 20$

44. (B)

$\frac{5\times5\times5\times5\times5}{2+2+2+2+2} = ?$

$= \frac{3125}{10}$

$\Rightarrow 312.5$

45.(A)

$\frac{3}{4}+\frac{5}{8}+\frac{13}{16}+\frac{3}{8}=?$

$= \frac{12+10+13+6}{16}$

$= \frac{41}{16}$

$\Rightarrow 2\frac{9}{16}$

46.(E)

$? = (35^2 - 5)/ 20$

$= (1225 - 5)/ 20$

$\Rightarrow 1220/20 = 61$

47.(D)

$(?)^2 \approx 31^2 - 10 - 8^3$

$= 961 - 10 - 512 = 439$

$\Rightarrow ? \approx 21$

48.(C)

$? = \left(29\times\sqrt{225}\right)\Big/\sqrt{21025}$

$= \left(29\times\frac{15}{145}\right) = 3$

49.(B)

$P \approx \left(50\times\frac{1290}{100}\right)+\sqrt{441}-628$

$= 645 + 21 - 628$

$\Rightarrow 38$

50.(B)

$75\%\text{ of }(?)^2 = 166+\frac{682}{2}$

$= 166 + 341 = 507$

$?^2 = 507\times\frac{75}{100}$

$= 676$

$? = 26$

51.(B)

$\frac{14}{99}\times\left(3\sqrt{729}\times\sqrt{121}\right)+(15)^2=?$

14 + 225 = ?

? = 239

52.(E)

$\frac{753+?}{18}+\frac{21}{100}\times 4200+\sqrt{841}=(31)^2$

$\frac{753+?}{18}=961-911$

? =900 – 753

? = 147

53(B)

(377 + 539 – 40) + $\frac{?}{100}$ × 800 = $(30)^2$

876+ ?*8 = 900

? = $\frac{(900-876)}{8}$

? = 3

54.(D)

$\frac{37}{100}\times 6600+169-?=(50^2)$

2442 + 169 – ? = 2500

? = 2611 – 2500

? =111

55.(E)

$18\times 25-\frac{?}{15}+\frac{15}{100}\times 300=(22)^2$

$450-\frac{?}{15}+45=484$

$\frac{?}{15}=495-484$

? = 165

56.(B)

32 – [5 + 3 of (5 × 5 – 2 × 10)] = ?

32 – [5 + 3 × (25 – 20)]

32 – 20 = 12

57.(B)

$7^{2.3}\times(7^2)^{4.7}\times 63^{3.4}\times(9^2)^{5.85}$

$7^{11.7}\times 63^{3.4}\times 9^{11.7}=63^{?}$

$63^{11.7}\times 63^{3.4}=63^{?}$

? = 15.1

58.(A)

$5^{11.9}\times 25^{7.2}\div 125^{4.6}=5^{?+2}$

$5^{9.9}\times\frac{\left(5^2\right)^{7.2}}{\left(5^3\right)^{4.6}}=5^{?}$

$5^{9.9+14.4-13.8}=5^{?}$

? = 10.5

59.(C)

$2*\{(9.09\%\ of\ 468)\}$

?=84

60.(B)

2.39 × [65 + 26 + 9]

$\Rightarrow$ 2.39 × 100

= 239

61.(B)

$\frac{56}{100}\times350+\frac{48}{100}\times550-15\times\frac{24}{10}$ = x

196 + 264 – 36 = x

424 = x

x = 424

62. (A)

$64^{1/2}\times32^{7/5}-\frac{x}{100}*15=784$

8 × 128 – 784 = $15\times\frac{x}{100}$

240 = $15*\frac{x}{100}$

x = 1600

63. (E)

$x\times\frac{69}{11}\times\frac{55}{23}=\frac{18}{100}\times1500$

x = $\frac{18\times15\times11\times23}{69\times55}$

x = 18

64. (B)

x% of 960 = $(36)^2-\frac{576}{18}-(32)^2$

x% of 960 = 1296 – 32 – 1024

x = 25

65. (D)

$\frac{112}{10}\times15\times\frac{64}{10}\times\frac{75}{10}$ = $(x)^3$

168 + 48 = $(x)^3$

$\sqrt[3]{216}$ = x

x = 6

66.(A)

$\frac{(24)^3\times(6)^4}{432}=x\times\frac{108}{24}$

$\frac{(6)^3\times(4)^3\times6^4}{(6)^3\times2}=\frac{x\times(2)^2\times(3)^3}{(3)\times(2)^3}$

x = $\frac{(6)^3\times(4)^3\times(6)^4\times3\times(2)^3}{(6)^3\times(2)^3\times(3)^3}$

x= $\frac{(4)^3\times(6)^4}{3^2}$

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

= 64 × 9 × 16

= 9216

67.(C)

$\frac{55}{100}\times200+x=\frac{22}{100}\times400+\frac{6}{100}\times460$

$\Rightarrow$ 110 + x = 88 + 27.6

x = 115.6 – 110

x = 5.6

68.(C)

$30\div\left[15\div\left[24\div\frac{16}{3}\right]\right]$

$30\div\left[15\div\left[24\times\frac{3}{16}\right]\right]$

$30 \div \left[15 \times \frac{2}{9}\right]$

$30 \div \left[\frac{5 \times 2}{3}\right]$

$\Rightarrow 30 \times \frac{3}{10} \Rightarrow 9$

69.(D)

$\frac{29}{4} + \frac{17}{2} + \frac{59}{6} + \frac{9}{2} = \frac{176}{7} - \frac{19}{6} \div 2 + x$

$\Rightarrow \frac{29}{4} + \frac{17}{2} + \frac{9}{2} + \frac{59}{6} + \frac{19}{12} = \frac{176}{7} + x$

$\Rightarrow \frac{87 + 102 + 54 + 118 + 19}{12} = \frac{176}{7} + x$

$\Rightarrow \frac{380}{12} - \frac{176}{7}$ = x

$\Rightarrow \frac{95}{3} - \frac{176}{7}$

$\Rightarrow \frac{137}{21}$ = x

$\Rightarrow$ x = 137/21

70.(B)

(20+12)% of 430 + 20% of 200 – 5% of 40 = ?% of (1000+300)

$= \frac{32}{100} \times 430 + \frac{20}{100} \times 200 - \frac{5}{100} \times 40$

$= \frac{x}{100} \times 1300$

137.6 + 40 – 2 = 13x%

$\Rightarrow$ 175.6 = 13x %

$\Rightarrow$ x = $175.6 \times \frac{100}{13}$

= 13.5 %

71.(B)

$\frac{?}{4} \times \frac{3}{5} \times \frac{24}{25} \times 625$ = 3125 × 54

? = 1875

72. (A)

? = 13456 – 11342

$\Rightarrow$ 2114

73.(D)

$4^{?} \times 4^5 = 4^4 \times 4^5$

$\Rightarrow 4^{?} = 4^4$

$\Rightarrow$? = 4

74.(E)

= 396 + 224 – 64

? = 556

75.(D)

? = 32 + 28 – 9

? = 51

76.(B)

$\frac{175}{100} \times 460 + \frac{11}{100} \times 1700 + 2^x$ = 1000

= 805 + 187 + 2^x = 1000

= 992 + 2^x = 1000

2^x = 1000 – 992

2^x = 8

$2^x = 2^3$

$\Rightarrow x = 3$

77.(C)

$= \frac{84}{100} \times 525 + \frac{46}{100} \times 450$

$= x + \frac{55}{100} \times 880$

$= 441 + 207 = x + 484$

$= 684 - 484 = x$

$\Rightarrow x = 164$

78.(A)

$38 \times 304 \div 8 = x^2$

$38 \times 38 = x^2$

$x = \sqrt{38} \times 38$

$x = 38$

79.(A)

$x\% \times 250 - 24\% \times 500 = x$

$\frac{x}{100} \times 250 - \frac{24}{100} \times 500 = x$

$\frac{5x}{2} - x = 120$

$\frac{5x - 2x}{2} = 120$

$\frac{3}{2} \times x = 120$

$x = 120 \times \frac{2}{3}$

$\Rightarrow x = 80$

80.(D)

$(0.5)^9 \div (0.5)^4 \times (0.5)^2 = (0.5)^{?-3}$

$(0.5)^{9-4+2} = (0.5)^{?-3}$

$(0.5)^7 = (0.5)^{?-3}$

$7 = ? - 4$

$? = 11$

81.(C)

$(181 \times 4 + 5) \div 9 = 65 + ?$

$(724 + 5) \div 9 = 65 + ?$

$729 \div 9 = 65 +$

$81 = 65 + ?$

$? = 81 - 65$

$? \Rightarrow 16$

82.(A)

$\frac{17}{100} \times 900 + \frac{21}{100} \times 1400 = 581 - ?$

$17 \times 9 + 21 \times 14 = 581 - ?$

$153 + 294 = 581 - ?$

$447 = 581 - ?$

$? = 581 - 447$

$? \Rightarrow 134$

83.(B)

$\left(20\frac{1}{2} - 15\frac{3}{6}\right) + ? = 30\frac{1}{3}$

$\left(\frac{41}{2} - \frac{93}{6}\right) + ? = \frac{91}{3} + \frac{107}{3}$

$\frac{246 - 186}{12} + ? = \frac{198}{3}$

$\frac{60}{12} + ? = 66$

$5 + ? = 66$

$? = 66 - 5$

$\Rightarrow ? = 61$

84.(A)

$5\frac{1}{6} - 3\frac{4}{9} + ? = \frac{7}{3} \times 4\frac{1}{6}$

$\frac{31}{6} - \frac{31}{9} + ? = \frac{7}{3} \times \frac{25}{6}$

$31\left(\frac{1}{6} - \frac{1}{9}\right) + ? = \left(\frac{175}{18}\right)$

$31\frac{3}{54} + ? = \frac{175}{18}$

$\frac{31}{18} + ? = \frac{175}{18}$

$? = \frac{144}{18}$

$? = 8$

85.(C)

$\frac{5 \times 1.8 \times 3 \times 1.4}{0.8 \times 2} + 9^2 = 0.4 \times ?$

$\frac{9 - 4.2}{1.6} + 81 = 0.4 \times ?$

$3 + 81 = 0.4 \times ?$

$84 = 0.4 \times ?$

$\Rightarrow ? = 210$

86. (B)

$1596 \times 189 \div 49 - 3398 + 1564 = ?$

$= \frac{1596}{49} \times 189 - 3398 + 1564$

$= 6156 - 3398 + 1564$

$= 4322$

87. (C)

$1001 \div 56 \times 112 - 1202 = ?$

$= \frac{1001}{56} \times 112 - 1202$

$= 2002 - 1202$

$= 800$

88. (B)

$\sqrt{4624} + \sqrt{841} + 1 = 14 \times ?$

$68 + 29 + 1 = 14 \times ?$

$= 7$

89. (D)

$966.69 + 996.96 + 966.35 = ?$

$= 2930$

90. (A)

$5852 \div 63 \times 36 = ? \times 19$

$\frac{5852}{63} \times 36 = ? \times 19$

$= 176$

91. (D)

$155 \times 6 + 836 \times 5 = ?\%$ of 7000

930 + 4180 = x% of 7000

$\frac{5110}{70} = x$

$= 73$

92. (D)

$\frac{224}{x} = \frac{x}{56}$

$x^2 = 224 \times 56$

$x = \sqrt{224 \times 56}$

$x = \sqrt{112 \times 2 \times 56}$

$x = 112$

93. (B)

$\sqrt{?} = (39 \times 315) \div 117$

$\sqrt{?} = \frac{(315)}{3}$

$\sqrt{?} = 105$

$= (105)^2$

$= 11025$

94. (C)

$104832 \div ? = 64 \times 42$

$= \frac{104832}{64 \times 42}$

$= 39$

95. (B)

$\frac{2}{5} \times \frac{10}{14} \times \frac{21}{26}$ of 3692 = ?

= 852

96. (B)

339% of 803 + 77.8% of 1107 = ?

$= \frac{340 \times 800}{100} + \frac{78 \times 1100}{100}$

= 2720 + 858

= 3578

Approx. 3580

97. (A)

32.88% of 1506 + 46.94% of 804 = ?

$= \frac{33 \times 1500}{100} + \frac{47 \times 800}{100}$

= 495 + 376

= 870 Approx.

98. (B)

58.5% of 4862 + ? % of 2748 = 3505

$\frac{58.5 \times 4860}{100} + \frac{x \times 2750}{100} = 3505$

$2843 + \frac{x55}{2} = 3505$

$\frac{x55}{2} = 3505 – 2843$

$x = 662 \times \frac{2}{55}$

x is approx. 24

99. (A)

$1206 \div 47.92 + 40.11 \times 16.96 = ?$

$= \frac{1200}{48} + 40 \times 17$

= 25 + 680

= 705

100. (B)

148% of 1212 – 11.99 × 25.02 = ?

$= \frac{150 \times 1200}{100} – 12 \times 25$

= 1800 – 300

= 1500

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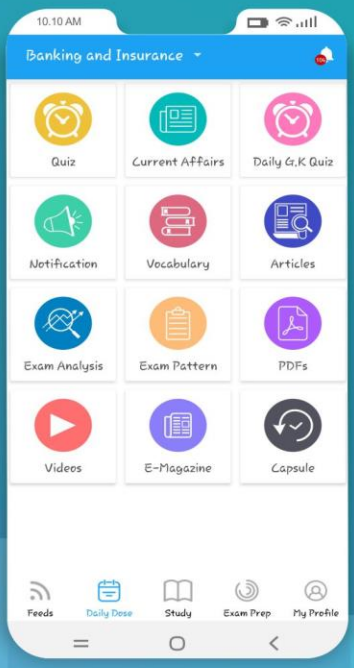

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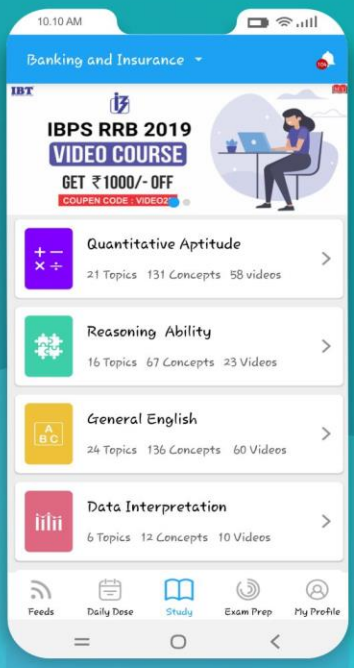

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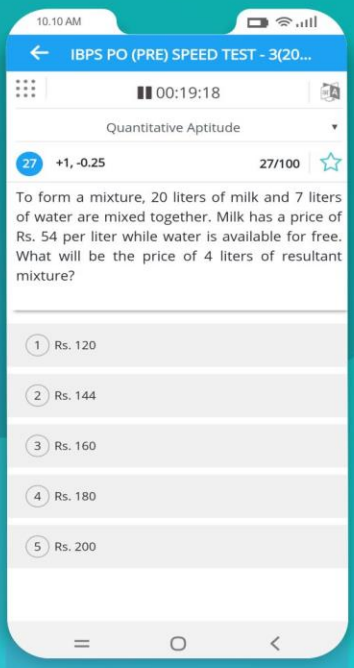

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