

TEST II
QUANTITATIVE APTITUDE

76-80. What will come in place equation mark (?) in the following questions?

76. $\sqrt{8^2 \times 8 \times (5)^2} - 175 = ?$
 (1) 105 (2) 95
 (3) 115 (4) 125
 (5) None of these
77. $(0.125)^3 \div (0.25)^2 \times (0.5)^2 = (0.5)^{? - 3}$
 (1) 12 (2) 18
 (3) 17 (4) 10
 (5) None of these
78. $64.5\% \text{ of } 800 + 36.4\% \text{ of } 1500 = (?)^2 + 38$
 (1) 32 (2) 38
 (3) 42 (4) 48
 (5) 34
79. $567 - 4824 \div 134 + ? \times 9$
 (1) 33 (2) 59
 (3) 37 (4) 57
 (5) None of these
80. $4\frac{5}{6} - 5\frac{5}{9} = ? - 2\frac{1}{3} + \frac{11}{18}$
 (1) $\frac{3}{4}$ (2) $2\frac{1}{18}$
 (3) $1\frac{7}{9}$ (4) $1\frac{11}{18}$
 (5) None of these

81-85. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.)

81. $(41.33)^2 + (7.96)^2 + (22.02)^2 = ?$
 (1) 1280 (2) 1440
 (3) 1580 (4) 1540
 (5) 1380

82. $41\% \text{ of } 601 - 250.17 + ? - 77\% \text{ of } 910$
 (1) 800 (2) 500
 (3) 700 (4) 650
 (5) 550
83. $520001 \div 61 \times 29 = ? \times 41$
 (1) 700 (2) 600
 (3) 500 (4) 550
 (5) 680
84. $\frac{701}{52} \div \frac{11}{699} \times \frac{112}{107} = ?$
 (1) 700 (2) 250
 (3) 300 (4) 225
 (5) 325
85. $\sqrt{5378} \times \sqrt{3330} \div \sqrt{360} = ?$
 (1) 200 (2) 250
 (3) 300 (4) 225
 (5) 325

86-90. What will come in place of question mark (?) in the following number series?

86. 117 389 593 627 (?)
 (1) 654 (2) 640
 (3) 634 (4) 630
 (5) None of these
87. 7 21 23 51 103 (?)
 (1) 186 (2) 188
 (3) 185 (4) 187
 (5) None of these
88. 18 27 49 84 132 (?)
 (1) 190 (2) 183
 (3) 180 (4) 193
 (5) None of these
89. 33 43 65 99 145 (?)
 (1) 201 (2) 203
 (3) 205 (4) 211
 (5) None of these
90. 655 439 314 250 223 (?)
 (1) 205 (2) 210
 (3) 195 (4) 190
 (5) None of these

91-95. If the following questions two equations numbered I and II are given. You have to solve both the equations and —

Give answer	If
(1)	$x > y$
(2)	$x = y$
(3)	$x < y$
(4)	$x \neq y$
(5)	$x = y$ or the relationship cannot be established

91. I. $\sqrt{289x} + \sqrt{25} = 0$

II. $\sqrt{676y} + 10 = 0$

92. I. $8x^2 - 78x + 169 = 0$

II. $20y^2 + 117y + 169 = 0$

93. I. $\frac{15}{\sqrt{x}} + \frac{9}{\sqrt{x}} = 11\sqrt{x}$

II. $\frac{\sqrt{y}}{4} + \frac{5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$

94. I. $\frac{8}{\sqrt{x}} + \frac{6}{\sqrt{x}} = \sqrt{x}$

II. $y^3 - \frac{(14)^2}{\sqrt{y}} = 0$

95. I. $x^2 - 208 = 233$

II. $y^2 - 47 + 371 = 0$

96. Train-A crosses a pole in 25 seconds and another Train-B crosses a pole in 1 minute and 15 seconds. Length of train-A is half length of train-B. What is the respective ratio between the speed of Train-A and Train-B?

- (1) 3 : 2 (2) 3 : 4 (3) 4 : 3
 (4) Cannot be determined
 (5) None of these

97. Veena's monthly income is equal to the cost of 34 kg of nuts. Cost of 10 kg of nuts is equal to the cost of 20 kgs of apples. If cost of 12 kg of apples is Rs. 1500/-. What is Veena's annual salary? (At some places annual income and in some place monthly income is given)

- (1) Rs. 1 lac 20 thousand
 (2) Rs. 1 lac 2 thousand
 (3) Rs. 2 lac 20 thousand
 (4) Cannot be determined
 (5) None of these

98. Rohit has some 50 paise coins, some 2 rupees coins, some 1 rupee and some 5 rupee coins. The value of all of coins is Rs. 50/-. Number of 2 rupee coin is 5 more than the 5 rupee coins. 50 paise coins are double in number than 1 rupee coin. Value of 50 paise coins and 1 rupee coins is Rs. 28/-. How many 2 rupee coins does he have?

- (1) 4 (2) 2 (3) 7
 (4) Cannot be determined
 (5) None of these

99. Puneet scored 175 marks in a test and failed by 35 marks. If the passing percentage of the test is 35 percent, what are the maximum marks of the test?

- (1) 650 (2) 700 (3) 750
 (4) 600 (5) None of these

100. The length of a rectangle is twice the diameter of a circle. The circumference of the circle is equal to the area of a square of side 22 cm. What is the breadth of the rectangle if its perimeter is 668 cm?

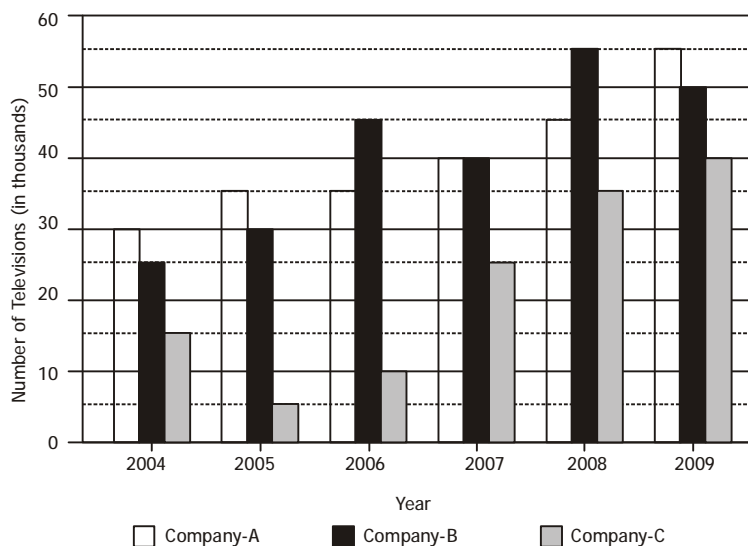
- (1) 24 cm (2) 26 cm
 (3) 52 cm (4) Cannot be determined
 (5) None of these

101. 4 girls can do a piece of work in 8 days, 3

- boys can do the same piece of work in 9 days, 7 men do the same piece of work in 2 days and 5 women can do the same piece of work in 4 days. Who is least efficient?
- (1) Boys (2) Girls
 (3) Women (4) Men
 (5) Boys and men both
102. The sum of eight consecutive even numbers of set-A is 376. What is the sum of different set of five consecutive numbers whose lowest number is 15 more than the mean of set-A?
 (1) 296 (2) 320 (3) 324
 (4) 284 (5) None of these
103. The ratio between the adjacent angles of a parallelogram is 2 : 3 respectively. Half the smaller angle of the parallelogram is equal to the smallest angle of a quadrilateral. Largest angle of quadrilateral is four time its smallest angle. What is the sum of largest angle of quadrilateral and the smaller angle of parallelogram?
 (1) 252° (2) 226° (3) 144°
 (4) 180° (5) None of these
104. Raju purchases 550 ml of milk every day. If cost of one liter of milk is Rs. 44/-. How much amount will be pay in 45 days?
 (1) Rs. 1,098/- (2) Rs. 1,079/-
 (3) Rs. 1,099/- (4) Rs. 1,088/-
 (5) None of these
105. In a school three are 2000 students out of whom 36 percent are girls. Each boy's monthly fee is Rs. 480/- and each girl's monthly fee is 25 percent less than a boy. What is the total of the monthly fees of girls and boys together?
 (1) Rs. 8,73,400/- (2) Rs. 8,67,300/-
 (3) Rs. 8,76,300/- (4) Rs. 8,73,600/-
 (5) None of these

106-110. Study the following graph carefully to answer the questions that follow:

Number of television (in thousands)
 manufactured by three different companies in six different years



106. If 25 percent of the number of television manufactured by Company A over all the years together were black and white, then what was the number of coloured televisions manufactured by Company-A over all the years together?
 (1) 1.4 lacs (2) 14,000
 (3) 1.8 lacs (4) 18,000
 (5) 1.5 lacs
107. If the cost of manufacturing one television in the year 2008 was Rs. 12,000/-, then what was the total expenditure of company C for manufacturing all the Television in the same year?
 (1) Rs. 40 crore (2) Rs. 52 crore
 (3) Rs. 5.2 crore (4) Rs. 4 crore
 (5) Rs. 42 crore
108. What was the percentage increase in the number of televisions manufactured by Company-C in year 2008 s compared to the previous year?
 (1) 40 (2) 45
 (3) 30 (4) 35
 (5) None of these
109. What was the approximate average number of television manufactured by Company B over all the years together?
 (1) 30677 (2) 30566
 (3) 40566 (4) 40834
 (5) 43055
110. What was the respective ratio between the number of televisions manufactured by Company-B in year 2006 and the number of television manufactured by Company-A in year 2005?
 (1) 5 : 4 (2) 9 : 5
 (3) 4 : 3 (4) 9 : 7
 (5) None of these

111-115. Study the table carefully to answer the questions that follow:

Number of trees planted (in Hundred)
 by five different NGOs in six different years in two different states

NGO	A		B		C		D		E	
	State-A	State-B	State-A	State-B	State-A	State-B	State-A	State-B	State-A	State-B
2005	14.2	8.5	14.21	4.4	4.5	4.4	4.5	2.1	9.4	3.5
2006	21.6	5.4	7.9	7.2	6.9	4.4	5.4	4.3	7.2	4.7
2007	13.5	8.8	7.7	4.8	5.4	3.8	6.3	6.3	7.4	8.2
2008	12.4	9.6	10.4	6.4	7.2	8.2	9.6	4.4	5.6	4.2
2009	10.8	12.4	12.6	6.2	8.6	6.4	8.4	5.2	6.9	3.8
2010	12.2	14.2	7.5	4.2	11.3	9.3	6.3	5.4	12.8	6.4

111. What was the respective ratio between the number of trees planted by NGO-A in the year 2006 in state-A and the number of trees planted by NGO-E in the year 2008 in state-B?
 (1) 36 : 11 (2) 36 : 7
 (3) 11 : 7 (4) 14 : 9
 (5) None of these
112. What was the average number of trees planted by NGO-B in the state-A over all the years together?
 (1) 1005 (2) 1050
 (3) 1015 (4) 1205
 (5) None of these
113. What was the approximate percentage decrease in the number of trees planted

- by NGO-C in state-B in the year 2009 as compared to the previous year?
- (1) 28 (2) 22
 (3) 26 (4) 16
 (5) 20
114. Which NGO planted the second lowest number of trees in both the states together in the year 2009?
- (1) A (2) B
 (3) C (4) D
 (5) E
115. Number of trees planted by NGO-D in the state-B in the year 2007 was approximately what percentage of the number of trees planted by NGO-A in the state-A in the year 2009?
- (1) 46 (2) 52
 (3) 70 (4) 58
 (5) 64

116-120. Study the following table carefully to answer the questions that follow:

Number of flights cancelled by five different airlines in six different years

Airlines	P	Q	R	S	T
Year					
2005	240	450	305	365	640
2006	420	300	470	446	258
2007	600	680	546	430	610
2008	160	208	708	550	586
2009	140	640	656	250	654
2010	290	363	880	195	483

116. What was the difference between the highest number of flights cancelled by airlines-Q and the lowest number of flights cancelled by airlines-T out of all the six years?
- (1) 446 (2) 456

- (3) 432 (4) 442
 (5) None of these
117. What was the approximate percent increase in number of flights cancelled by airlines S in the year 2008 as compared to previous year?
- (1) 127 (2) 27
 (3) 150 (4) 45
 (5) 117
118. What was the average number of flights cancelled by the airlines P, R, S and T in the year 2008?
- (1) 551.5 (2) 504
 (3) 405 (4) 442.4
 (5) None of these
119. If 40 percent of flights in the year 2010 by airlines R were cancelled due to bad weather conditions and rest were cancelled due to technical fault. What was the number of flights cancelled due to technical fault?
- (1) 528 (2) 568
 (3) 468 (4) 548
 (5) None of these
120. Number of flights cancelled by airlines-P and R together in the year 2007 was approximately what percentage of number of flights cancelled by airlines-S in the year 2005?
- (1) 356 (2) 280
 (3) 265 (4) 340
 (5) 314

121-125. Study the information carefully to answer the questions that follow.

In a sports event there are 5 sports viz. Hockey, Cricket, Tennis, Badminton and Baseball. Three is a total number of 800 players in the sports event. The ratio between female and male players is 1 : 3

respectively. Twenty five percent of the total players are in Cricket. There are 110 badminton players. 10 percent of the total players are in Tennis. Hockey players are double the number of badminton players. Remaining players are in Baseball players. 10 percent of total hockey players are equal to the number of female players in Tennis. There are equal numbers of females in Hockey and Baseball.

121. What is the respective ratio between the female players in Hockey and the male players in Badminton?
 (1) 20 : 13 (2) 11 : 20
 (3) 13 : 20 (4) 11 : 23
 (5) None of these
122. What is the total number of males in Hockey, Cricket and Baseball together?
 (1) 464 (2) 454
 (3) 462 (4) 432
 (5) None of these
123. Number of female players in Baseball is what percentage of male players in Hockey?
 (1) 25 (2) 34 (3) 24
 (4) 15 (5) None of these
124. What is the difference between the male players in Baseball and total number of players in Tennis?
 (1) 58 (2) 76
 (3) 56 (4) 68
 (5) None of these
125. In which sports female players are minimum and male players are minimum respectively?
 (1) Cricket and Badminton
 (2) Cricket and Hockey
 (3) Baseball and Cricket
 (4) Cricket and Tennis
 (5) Tennis and Hockey

ANSWERS

					76.(1)	77.(4)	78.(1)	79.(2)	80.(5)
81.(1)	82.(3)	83.(2)	84.(3)	85.(4)	86.(5)	87.(4)	88.(4)	89.(2)	90.(5)
91.(3)	92.(2)	93.(1)	94.(5)	95.(5)	96.(1)	97.(2)	98.(3)	99.(4)	100.(2)
101.(4)	102.(2)	103.(5)	104.(5)	105.(4)	106.(3)	107.(5)	108.(1)	109.(4)	110.(4)
111.(2)	112.(1)	113.(2)	114.(4)	115.(4)	116.(5)	117.(2)	118.(2)	119.(1)	120.(5)
121.(2)	122.(3)	123.(1)	124.(5)	125.(4)					

