

Section B

Quantitative Aptitude

Directions (Q. Nos. 76 to 80) *What approximate value should come in place of the question mark (?) in the following questions ?*

(Note : You are not expected to calculate the exact value)

76. $12959.998 \div 18.010 = ?$
 (1) 840 (2) 990
 (3) 570 (4) 680
 (5) 720
77. 40.005% of $439.998 + ?\%$ of $655.011 = 228.5$
 (1) 8 (2) 17
 (3) 12 (4) 20
 (5) 5
78. $6894.986 + 5025.005 + 600.020 = ?$
 (1) 12170 (2) 13540
 (3) 12950 (4) 11560
 (5) 12520
79. $31.999 \times 12.001 \times 17.5001 = ?$
 (1) 6600 (2) 6720
 (3) 6480 (4) 6070
 (5) 6270
80. $(10.998)^3 = ?$
 (1) 1440 (2) 1780
 (3) 1330 (4) 1640
 (5) 1000
81. Mrudul invested an amount of ₹ 29500 in order to start a business. Shalaka joined her 4 months later by investing an amount of ₹ 33500. If the business earned a profit of ₹ 120575 at the end of two years, what was Mrudul's share of the profit ?
 (1) ₹ 60725 (2) ₹ 61950
 (3) ₹ 59250 (4) ₹ 58625
 (5) None of these
82. What is the least number that can be added to the number 1020 to make it a perfect square ?
 (1) 65 (2) 12
 (3) 59 (4) 4
 (5) None of these
83. Philip, Tom and Brad start jogging around a circular field and complete a single round in 18, 22 and 30 seconds respectively. In how much time, will they meet again at the starting point ?
 (1) 3 min 15 sec (2) 21 min
 (3) 16 min 30 sec (4) 12 min
 (5) None of these
84. A water tank has three taps A, B and C. Tap A, when opened, can fill the water tank alone in 4 hours. Tap B, when opened, can fill the water tank alone in 6 hours and tap C, when opened, can empty the water tank

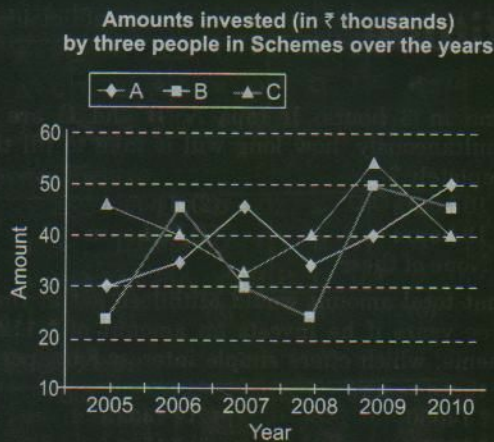
alone in 3 hours. If taps A, B and C are opened simultaneously, how long will it take to fill the tank completely ?

- (1) 10 hours (2) 8 hours
 (3) 18 hours (4) 12 hours
 (5) None of these
85. What total amount would Mithilesh get at the end of three years if he invests an amount of ₹ 11200 in a scheme, which offers simple interest 8.5% per annum for three years ?
 (1) ₹ 14056 (2) ₹ 14348
 (3) ₹ 13852 (4) ₹ 15064
 (5) None of these

Directions (Q. Nos. 86 to 90) *What should come in place of the question mark (?) in the following questions ?*

86. $1111.1 + 111.11 + 11.111 = ?$
 (1) 1232.231 (2) 1233.123
 (3) 1332.331 (4) 1323.132
 (5) None of these
87. $12.4 \times ? \times 16.5 = 2905.32$
 (1) 13.4 (2) 15.2
 (3) 14.2 (4) 14.2
 (5) None of these
88. $(?)^3 = 4913$
 (1) 27 (2) 19 (3) 17 (4) 29
 (5) None of these
89. $8080 \div 80 \div 8 = ?$
 (1) 800 (2) 12.625
 (3) 10.545 (4) 808
 (5) None of these
90. 25% of $84 \times 24\%$ of $85 = ?$
 (1) 424.2 (2) 488.4
 (3) 482.8 (4) 428.4
 (5) None of these
91. Prasad sold his work tools for ₹ 1850 and earned a profit of 25 per cent. At what price did Prasad buy the work tools ?
 (1) ₹ 1360 (2) ₹ 1300
 (3) ₹ 1240 (4) ₹ 1480
 (5) None of these
92. What would be the cost of building a fence around a school at the rate of ₹ 34 per foot ?
 (1) ₹ 2924
 (2) ₹ 2682
 (3) ₹ 2846
 (4) Cannot be determined
 (5) None of these

Directions (Q. Nos. 93 to 97) *Study the following graph carefully to answer the questions.*



93. What is the average amount invested in the year 2009 by all the three people together ?
 (1) ₹ 28350 (2) ₹ 48333 $\frac{1}{3}$
 (3) ₹ 32333 $\frac{1}{3}$ (4) ₹ 45000
 (5) None of these
94. What is the per cent decrease in the amount invested by C in the year 2007 from the previous year ?
 (1) 11.3 (2) 13.5
 (3) 12.5 (4) 14.3
 (5) None of these
95. What is the respective ratio of total amount invested by B in the years 2003 and 2010 together to the total amount invested by C in those two years together ?
 (1) 7 : 8 (2) 14 : 15
 (3) 6 : 7 (4) 12 : 13
 (5) None of these
96. The amount invested by A in the year 2006 is approximately what per cent of the total amount invested by him over all the years together ?
 (1) 15 (2) 19
 (3) 21 (4) 8
 (5) 11
97. What was the total amount invested by all the three people together in the year 2005 ?
 (1) ₹ 10000 (2) ₹ 1000000
 (3) ₹ 1000 (4) ₹ 100
 (5) None of these

Directions (Q. Nos. 98 to 102) *Study the information given below and answer the questions that follow.*

A building consists of men and women who spend their leisure time in watching movies, learning dance and learning singing. 8 men, who form ten per cent of the total number of men in the building, learn to dance. The total number of women in the building is 62.5 per cent of the total number of men in the building. Twenty-four per cent

of the total number of women learns to sing. One-fifth of the total number of women watches movies. The ratio of the number of men watching movies to the number of women doing the same is 13:2 respectively.

98. What is the respective ratio of the number of men learning dance to the number of women doing the same ?
 (1) 8 : 11 (2) 5 : 9
 (3) 2 : 7 (4) 3 : 5
 (5) None of these
99. The total number of women in the building is approximately what per cent of the total number of members (men and women together) in the building ?
 (1) 45 (2) 33
 (3) 42 (4) 27
 (5) 38
100. What is the number of women learning dance ?
 (1) 28 (2) 22
 (3) 30 (4) 24
 (5) None of these
101. The number of men who like watching movies is what per cent of the total number of men in the building ?
 (1) 79.75 (2) 83.45
 (3) 81.25 (4) 72.15
 (5) None of these
102. What is the total number of members (men and women together) learning singing ?
 (1) 21 (2) 13
 (3) 13 (4) 15
 (5) None of these

Directions (Q. Nos. 103 to 107) *What should come in place of the question mark (?) in the following number series?*

103. 3 732 1244 1587 1803 1928 ?
 (1) 2144 (2) 1992
 (3) 1955 (4) 2053
 (5) None of these
104. 16 24 ? 210 945 5197.5 33783.76
 (1) 40 (2) 36
 (3) 58 (4) 60
 (5) None of these
105. 45030 9000 1795 355 68 ? 1.32
 (1) 11.6 (2) 12.2
 (3) 10.4 (4) 9.8
 (5) None of these
106. 5 12 36 123 ? 2555 15342
 (1) 508 (2) 381
 (3) 504 (4) 635
 (5) None of these
107. 8 11 17 ? 65 165.5 498.5
 (1) 27.5 (2) 32
 (3) 28 (4) 30.5
 (5) None of these

Directions (Q. Nos. 108 to 112) Each of the questions given below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and

Give answer (1) if the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
 Give answer (2) if the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
 Give answer (3) if the data in statement I alone or in statement II alone is sufficient to answer the question
 Give answer (4) if the data in both the statements I and II is not sufficient to answer the question
 Give answer (5) if the data in both the statements I and II together is necessary to answer the question

108. What is the salary of C, in a group of A, B, C, D and E whose average salary is ₹ 48250 ?
 I. C's salary is 1.5 times B's salary.
 II. Average salary of A and B is ₹ 23500.
109. What is the per cent profit earned by selling a car for ₹ 640000 ?
 I. The amount of profit earned on selling the car was ₹ 320000.
 II. The selling price of the car was twice the cost price.
110. What is the rate of interest per cent per annum ?
 I. An amount of ₹ 14350 gives a simple interest of ₹ 11450 in four years.
 II. The amount doubles itself in 5 years with simple interest.
111. What is the two digit number?
 I. The difference between the two digits of the number is 9.
 II. The product of the two digits of the number is 0.
112. What is the perimeter of the rectangle ?
 I. The area of the rectangle is 252 sq m.
 II. The ratio of length to breadth of the rectangle is 9 : 7 respectively.

Directions (Q. Nos. 113 to 115) Study the given information carefully to answer the questions that follow.

A committee of 6 teachers is to be formed out of 4 Science teachers, 5 Arts teachers and 3 Commerce teachers. In how many different ways can the committee be formed if

113. Two teachers from each stream are to be included ?
 (1) 210 (2) 180
 (3) 145 (4) 96
 (5) None of these
114. No teacher from the Commerce stream is to be included ?
 (1) 81 (2) 62
 (3) 46 (4) 84
 (5) None of these
115. Any teacher can be included in the committee ?
 (1) 626 (2) 718
 (3) 924 (4) 844
 (5) None of these

Directions (Q. Nos. 116 to 120) Study the following table carefully to answer the questions that follow.

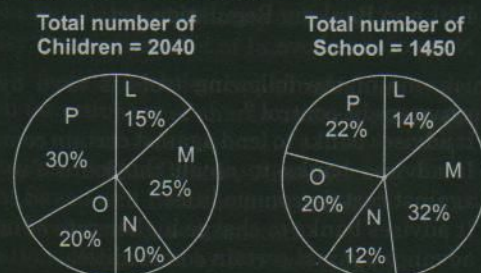
Number of people (in hundreds) participating in the Annual Fair from six different towns over the years

Years	Town					
	P	Q	R	S	T	U
2005	4.2	5.5	4.5	5.8	6.0	5.7
2006	5.1	5.3	6.2	5.7	6.1	6.2
2007	6.3	5.1	6.5	5.3	5.9	6.6
2008	4.4	5.0	5.9	5.1	5.3	5.1
2009	5.8	5.4	5.4	4.9	5.5	4.4
2010	6.2	6.8	4.9	4.8	5.7	4.3

116. Number of people participating in the Fair from town P in the year 2010 forms approximately what per cent of the total number of people participating in the Fair from that town over all the years together ?
 (1) 19 (2) 24 (3) 27 (4) 12
 (5) 15
117. What is the respective ratio of total number of people participating in the Fair from town S in the years 2006 and 2007 together to the number of people participating in the Fair from town R in the same years ?
 (1) 8 : 9 (2) 110 : 127 (3) 136 : 143 (4) 11 : 12
 (5) None of these
118. What is the per cent increase in the number of people participating in the Fair from town T in the year 2009 from the previous year ? (Rounded off to two digits after decimal)
 (1) 4.15 (2) 3.77 (3) 1.68 (4) 2.83
 (5) None of these
119. What is the average number of people participating in the Fair from town U over all the years together ? (Rounded off to the nearest integer)
 (1) 515 (2) 523
 (3) 567 (4) 541
 (5) 538
120. How many people participated in the Fair from all the towns together in the year 2005 ?
 (1) 3290 (2) 3100
 (3) 3240 (4) 3170
 (5) None of these

Directions (Q. Nos. 121 to 125) Study the following pie-charts carefully to answer the questions that follow.

Percentage break-up of number of children in five different villages and break-up of children attending school from those villages



121. What is the respective ratio of total number of children from village O to the number of children attending school from the same village ?
(1) 204:145 (2) 179 : 131 (3) 167 : 111 (4) 266 : 137
(5) None of these
122. What is the number of children attending school from village N ?
(1) 145 (2) 159 (3) 170 (4) 164
(5) None of these
123. What is the total number of children not attending school from villages M and N together ?
(1) 69 (2) 56 (3) 76 (4) 63
(5) None of these
124. What is the total number of children from villages P and M together ?
(1) 1422 (2) 1142 (3) 1122 (4) 1211
(5) None of these
125. The number of children attending school from village L is approximately what per cent of the total number of children from that village ?
(1) 78 (2) 72 (3) 57 (4) 84
(5) 66