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Test I Reasoning Ability & Computer Competency

Directions (Q. Nos. 1 to 5) *Study the following information carefully and answer the given questions.*

Eight friends, P, Q, R, S, T, V, W and Y are sitting around a square table in such a way that four of them sit at four corners of the square, while four sit in the middle of each of the four sides. The ones who sit at the four corners face the centre, while those who sit in the middle of the sides face outside.

P who faces the centre sits third to the right of V. T, who faces the centre, is not an immediate neighbour of V. Only one person sits between V and W. S sits second to right of Q. Q faces the centre. R is not an immediate neighbour of P.

1. Who sits second to the left of Q?
   (1) V   (2) P   (3) T   (4) Y
   (5) Cannot be determined

2. What is the position of T with respect to V?
   (1) Fourth to the left   (2) Second to the left
   (3) Third to the left   (4) Third to the right
   (5) Second to the right

3. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
   (1) R   (2) W   (3) V   (4) S
   (5) Y

4. Which of the following will come in place of the question mark (?) based upon the given seating arrangement?

   WP   TR   QW   RS   ?

   (1) YT   (2) VY   (3) VQ   (4) PY
   (5) QV

5. Which of the following is true regarding R?
   (1) R is an immediate neighbour of V
   (2) R faces the centre
   (3) R sits exactly between T and S
   (4) Q sits third to left of R
   (5) None is true

Directions (Q. Nos. 6 to 10) *Study the following information to answer the given questions.*

In a certain code, 'a friend of mine' is written as '4916', 'mine lots of metal' is written as ' 3109' and 'a piece of metal' is written as '7163'.

6. What is the code for 'piece'?
   (1) 3   (2) 6   (3) 1   (4) 7
   (5) Cannot be determined

7. What does '9' stand for?
   (1) of   (2) mine   (3) friend   (4) lots
   (5) metal

8. Which of the following may represent 'a pleasure of mine'?
   (1) 6309   (2) 5216   (3) 9216   (4) 3694
   (5) 5041

9. What does '0' stand for?
   (1) mine   (2) metal   (3) of   (4) lots
   (5) a

10. '873' would mean
    (1) a metal piece   (2) metal for friend
    (3) piece of advise   (4) friend of mine
    (5) large metal piece

Directions (Q. Nos. 11 to 16) *Study following information to answer the given questions.*

Twelve people are sitting in two parallel rows containing six people each, in such a way that there is an equal distance between adjacent persons. In row-1, P, Q, R, S, T and V are seated and all of them are facing South. In row-2, A, B, C, D, E and F are seated and all of them are facing North. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row.

A sits third to right of D. Neither A nor D sits at extreme ends. T faces D. V does not face A and V does not sit at any of the extreme ends. V is not an immediate neighbour of T. B sits at one of the extreme ends. Only two people sit between B and E. E does not face V. Two persons sit between R and Q. R is not an immediate neighbour of T. C does not face V. P is not an immediate neighbour of R.

Test II Quantitative Aptitude

Directions (Q. Nos. 101 to 105) *What will come in place of question mark (?) in the following questions ?*

101. $348 \div 29 \times 15 + 156 = (?)^3 + 120$
(1) 12   (2) 6   (3) 36   (4) 9
(5) None of these

102. $(4 \times 4)^3 \div (512 \div 8)^4 \times (32 \times 8)^4 = (2 \times 2)^{? + 4}$
(1) 8   (2) 12   (3) 6   (4) 14
(5) None of these

103. $(2\sqrt{392} - 21) + (\sqrt{8} - 7)^2 = (?)^2$
(1) 4   (2) -4 (3) 12   (4) 2
(5) 6

104. $1\frac{1}{4} + 1\frac{1}{6} - 1\frac{1}{8} = ? + 1\frac{1}{12}$
(1) $\frac{5}{24}$ (2) $\frac{7}{24}$ (3) $\frac{5}{12}$ (4) $\frac{7}{12}$
(5) None of these

105. 76% of 1285 = 35% of 1256 + ?
(1) 543   (2) 537   (3) 547   (4) 533
(5) None of these

Directions (Q. Nos. 106 to 110) *What approximate value will come in place of question mark (?) in the following questions ? (You are not expected to calculate the exact value)*

106. $499.99 + 1999 \div 39.99 \times 50.01 = ?$
(1) 3200   (2) 2700   (3) 3000   (4) 2500
(5) 2400

107. $[(7.99)^2 - (13.001)^2 + `(4.01)^3]^2 = ?$
(1) -1800 (2) 1450   (3) -1660 (4) 1660
(5) -1450

108. $\frac{601}{49} \times \frac{399}{81} \div \frac{29}{201} = ?$
(1) 520   (2) 360   (3) 460   (4) 500
(5) 420

109. $441.01 - 232.99 + 1649.99 = ? + 1225.92$
(1) 600   (2) 630   (3) 660   (4) 690
(5) 720

110. $(21.5\% \text{ of } 999)^{1/3} + (43\% \text{ of } 601)^{1/2} = ?$
(1) 18   (2) 22   (3) 26   (4) 30
(5) 33

Directions (Q. Nos. 111 to 115) *What will come in place of question mark (?) in the following number series?*

111. 15 21 39 77 143 (?)
(1) 243   (2) 240   (3) 253   (4) 245
(5) None of these

112. 33 39 57 87 129 (?)
(1) 183   (2) 177   (3) 189   (4) 199
(5) None of these

113. 15 19 83 119 631 (?)
(1) 731   (2) 693   (3) 712   (4) 683
(5) None of these

114. 19 26 40 68 124 (?)
(1) 246   (2) 238   (3) 236   (4) 256
(5) None of these

115. 43 69 58 84 73 (?)
(1) 62   (2) 98
(3) 109   (4) 63
(5) None of these

Directions (Q. Nos. 116 to 120) *In the following questions, two equations numbered I and II are given. You have to solve both the equations and give answer*
(1) if $x > y$
(2) if $x \geq y$
(3) if $x < y$
(4) if $x \leq y$
(5) if $x = y$ or the relationship cannot be established

116. I. $x^2 - 11x + 24 = 0$
II. $2y^2 - 9y + 9 = 0$

117. I. $x^3 \times 13 = x^2 \times 247$
II. $y^{1/3} \times 14 = 294 \div y^{23}$

118. I. $\frac{12 \times 4}{x^{4/7}} - \frac{3 \times 4}{x^{4/7}} = x^{107}$
II. $y^3 + 783 = 999$

119. I. $\sqrt{500}\, x + \sqrt{402} = 0$
II. $\sqrt{360}\, y + (200)^{1/2} = 0$

120. I. $(17)^2 + 114 \div 18 = x$
II. $(26)^2 - 18 \times 21 = y$

121. The respective ratio between the present ages of Ram and Rakesh is 6 : 11. Four years ago, the ratio of their ages was 1 :2 respectively. What will be Rakesh's age after five years?
(1) 45 years   (2) 29 years
(3) 49 years   (4) Cannot be determined
(5) None of these

122. The circumference of two circles is 83 m and 220 m respectively. What is the difference between the area of the larger circle and the smaller circle ?
(1) 3422 sq m   (2) 3242 sq m
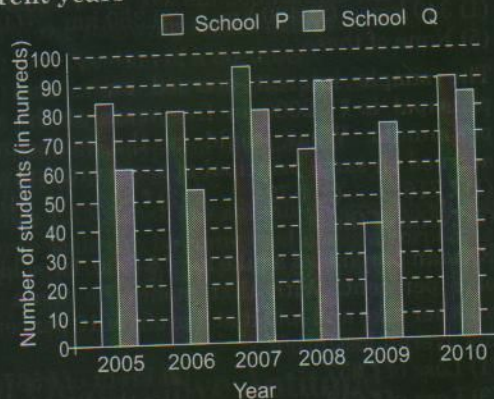(3) 3244 sq m   (4) 3424 sq m
(5) None of these

123. One of the angles of a triangle is two-third angle of sum of adjacent angles of parallelogram. Remaining angles of the triangle are in ratio 5 : 7 respectively. What is the value of second largest angle of the triangle ?
 (1) 25° (2) 40°
 (3) 35° (4) Cannot be determined
 (5) None of these

124. Pradeep invested 20% more than Mohit. Mohit invested 10% less than Raghu. If the total sum of their investment is ₹ 17880, how much amount did Raghu invest ?
 (1) ₹ 6000 (2) ₹ 8000
 (3) ₹ 7000 (4) ₹ 5000
 (5) None of these

125. Average score of Rahul, Manish and Suresh is 63. Rahul's score is 15 less than Ajay and 10 more than Manish. If Ajay scored 30 marks more than the average scores of Rahul, Manish and Suresh, what is the sum of Manish's and Suresh's scores ?
 (1) 120 (2) 111
 (3) 117 (4) Cannot be determined
 (5) None of these

126. Fifty-three per cent of a number is 358 less than the square of 26. What is the value of three-fourth of 23 per cent of that number ?
 (1) 101 (2) 109.5
 (3) 113 (4) 103.5
 (5) None of these

127. The average speed of a car is $1\frac{4}{5}$ times the average speed of a bus. A tractor covers 575 km in 23 hours. How much distance will the car cover in 4 hours if the speed of the bus is twice speed of the tractor ?
 (1) 340 km (2) 480 km (3) 360 km (4) 450 km
 (5) None of these

128. The simple interest accrued on a sum of certain principal is ₹ 2000 in five years at the rate of 4% per annum. What would be the compound interest accrued on same principal at same rate in two years ?
 (1) ₹ 716 (2) ₹ 724 (3) ₹ 824 (4) ₹ 816
 (5) None of these

129. Rehaan purchased a bike for ₹54000. He sold it at a loss of 8 per cent. With that money he again purchased another bike and sold it at a profit of 10 per cent. What is his overall loss/profit ?
 (1) Loss of ₹ 657 (2) Profit of ₹ 567
 (3) Loss of ₹ 648 (4) Profit of ₹ 648
 (5) None of these

130. Two men alone or three women alone can complete a piece of work in 4 days. In how many days can one woman and one man together complete the same piece of work ?
 (1) 6 days (2) $\frac{24}{5}$ days
 (3) $\frac{12}{1.75}$ days (4) Cannot be determined
 (5) None of these

Directions (Q. Nos. 131 to 135) *Study the table carefully to answer the questions that follow*
Number of employees working in four different companies in five different years

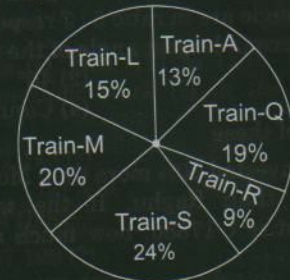| Year | Company | | | | | | | |
| | A | | B | | C | | D | |
	Male	Female	Male	Female	Male	Female	Male	Female
2004	200	400	250	450	350	600	400	450
2005	250	150	400	100	550	350	550	600
2006	400	250	850	400	350	500	650	450
2007	650	400	500	150	650	500	700	600
2008	750	300	600	350	400	300	650	400

131. What was the total number of males working in Company-A in the year 2007, males working in Company-B in the year 2005 and females working in Company-D in the year 2006 together ?
 (1) 1550 (2) 1600
 (3) 1450 (4) 1400
 (5) None of these

132. What was the average number of female employees working in all the companies together in the year 2004 ?
 (1) 475 (2) 385 (3) 450 (4) 300
 (5) None of these

133. Total number of male employees working in Company-C over all the years together was approximately what percentage of total number of employees working in the year 2007 in all the companies together ?
 (1) 41 (2) 46 (3) 51 (4) 55
 (5) 59

134. If 20 per cent of male and 30 per cent of female employees in Company-B in the year 2004 were handicapped, then what was the total number of handicapped candidates in that company in that year ?
 (1) 185 (2) 170
 (3) 190 (4) 195
 (5) None of these

135. What was the respective ratio between the number of males in Company-D in the year 2005, number of females in Company-A in the year 2006 and the number of males in Company-B in the year 2005 ?
 (1) 11 : 5 : 8
 (2) 11 : 6 : 8
 (3) 12 : 5 : 9
 (4) 12 : 5 : 7
 (5) 11 : 5 : 9

Directions (Q. Nos. 136 to 140) *Study the following graph carefully to answer the questions that follow:*

Number of students (in hundreds) from two different schools who qualified in an exam in six different years

136. What was the approximate per cent increase in the number of students who qualified in the exam from School-Q in the year 2007 as compared to the previous year?
   (1) 30   (2) 36
   (3) 45   (4) 49
   (5) 26

137. What was the respective ratio between the number of students who qualified in the exam from School-P in the year 2005 and the number of students who qualified in the exam from School-Q in the year 2008 ?
   (1) 13 : 18   (2) 17 : 18
   (3) 17 : 19   (4) 13 : 19
   (5) None of these

138. What was the difference between the total number of students who qualified in the exam in the year 2005 from both the schools together and the total number of students from School-Q who qualified in the exam over all the years together ?
   (1) 30000   (2) 30500
   (3) 29000   (4) 29500
   (5) None of these

139. Total number of students who qualified in the exam from School-P over all the years together was approximately what percentage of total number of students who qualified in the exam from both the schools together in the year 2006 and 2007 together ?
   (1) 143   (2) 159
   (3) 155   (4) 165
   (5) 147

140. If 40 per cent of the total students who qualified in the exam from both the schools together over all the years are females, then what was the total number of males who qualified in the exams over all the years from both the schools together ?
   (1) 51000   (2) 54000
   (3) 56000   (4) 52000
   (5) None of these

Directions (Q. Nos. 141 to 145) *Study the following pie-chart carefully to answer these questions.*

141. What was the approximate average number of passengers in Train-S, Train-M and Train-L together?
   (1) 1521   (2) 1641
   (3) 1651   (4) 1671
   (5) 1691

142. If in Train-R 34 per cent of the passengers are females and 26 per cent are children, what is the number of males in that train ?
   (1) 306   (2) 316
   (3) 308   (4) 318
   (5) None of these

143. Number of passengers in the Train-Q is approximately what percentage of the total number of passengers in Train-A and Train-R?
   (1) 90   (2) 70   (3) 75   (4) 80
   (5) 86

144. Which train has second highest number of passengers ?
   (1) A   (2) Q   (3) S   (4) M
   (5) L

145. How much more per cent (approximately) number of passengers are there in Train-M as compared to the number of passengers in Train-L ?
   (1) 29   (2) 49   (3) 43   (4) 33
   (5) 39

Directions (Q. Nos. 146 to 150) *Study the following table carefully to answer the questions that follow.*

Monthly rent (in ₹ thousands) at five different places in six different years

Year	Church-gate	Dadar	Kandivali	Borivali	Virar
2005	5.3	3.8	1.5	2.7	1.1
2006	12.5	8.3	3.4	4.8	2.1
2007	16.7	11.7	5.5	6.6	1.8
2008	20.9	13.6	9.8	12.7	3.6
2009	25.8	14.5	11.5	14.1	5.5
2010	30.3	20.9	15.6	15.9	7.8

146. In which place, the monthly rent did not increase consistently from year 2005 to 2010 ?
   (1) Churchgate   (2) Dadar
   (3) Kandivali   (4) Borivali
   (5) Virar)

147. In which year at Churchgate, the monthly rent increased more than 100% from the previous year?
(1) 2006
(2) 2007
(3) 2008
(4) 2009
(5) 2010

148. What was the difference between the monthly rent at Dadar in the year 2009 and Borivali in the year 2007 ?
(1) ₹ 7600
(2) ₹ 7900
(3) ₹ 8100
(4) ₹ 8600
(5) None of these

149. Monthly rent at Kandivali in the year 2008 was approximately what per cent of the total monthly rent at Virar over all the years together ?
(1) 30
(2) 33
(3) 38
(4) 42
(5) 45

150. Which city was most expensive in terms of rent ?
(1) Churchgate
(2) Dadar
(3) Kandivali
(4) Borivali
(5) Virar