

**TEST II**  
**QUANTITATIVE APTITUDE**

101-105. What will in place of question mark (?) in the following questions?

Q.101.  $348 \div 29 \times 15 + 156 = (?)^3 + 120$

- (1) 12                      (2) 6  
(3) 36                      (4) 9  
(5) None of these

Q.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

Q.103.  $(2\sqrt{382-21}) + (\sqrt{8-7})^2 = (?)^2$

- (1) 4                      (2) -4  
(3) 12                      (4) 2  
(5) 6

Q.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

Q.105.  $76\% \text{ of } 1285 = 35\% \text{ of } 1256 + ?$

- (1) 543                      (2) 537  
(3) 547                      (4) 533  
(5) None of these

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

Q.106.  $499.99 + 1999 \div 39.99 \times 50.01 = ?$

- (1) 3200                      (2) 2700  
(3) 3000                      (4) 2500  
(5) 2400

Q.107.  $[(7.99)^2 - (13.001)^2 + (4.01)^3]^2 = ?$

- (1) -1800                      (2) 1450  
(3) -1660                      (4) 1660  
(5) -1450

Q.108.  $\frac{601}{49} \times \frac{399}{91} \div \frac{29}{201} = ?$

- (1) 520                      (2) 360  
(3) 460                      (4) 500  
(5) 420

Q.109.  $441.01 - 232.99 + 1649.99 = ? + 1225.92$

- (1) 600                      (2) 630  
(3) 660                      (4) 690  
(5) 720

Q.110.  $(21.5\% \text{ of } 999)^{1/3} + (43\% \text{ of } 601)^{1/2} = ?$

- (1) 18                      (2) 22  
(3) 26                      (4) 30  
(5) 33

111.-115. What will come in place of question mark (?) in the following numbers 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

Solved Paper

116-120. In the following questions two equations numbered I and II are given. You have to solve the both the equations and—

- |  | Give answer | If                                                |
|--|-------------|---------------------------------------------------|
|  | (1)         | $x > y$                                           |
|  | (2)         | $x = y$                                           |
|  | (3)         | $x < y$                                           |
|  | (4)         | $x = y$                                           |
|  | (5)         | $x = y$ or the relationship cannot be established |
- Q.116. I.  $x^2 - 11x + 24 = 0$   
 II.  $2y^2 - 9y + 9 = 0$
- Q.117. I.  $x^3 \times 13 = x^2 \div 247$   
 II.  $y^{1/3} \times 14 = 294 \div y^{2/3}$
- Q.118. I.  $\frac{12 \times 4}{x^{4/7}} - \frac{3 \times}{x^{4/7}} = x^{10/7}$   
 II.  $y^3 \times 78 = 999$
- Q.119. I.  $\sqrt{500}x + \sqrt{402} = 0$   
 II.  $\sqrt{360}y + (200)^{1/2} = y$
- Q.120. I.  $(17)^2 + 144 \div 18 = x$   
 II.  $(26)^2 - 18 \times 21 = y$
- Q.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
- Q.122. The circumference of two circles is 88 metres and 220 metres respectively. What is the difference between the area of the larger circle and the smaller circle?  
 (1) 3422 sq.mtrs. (2) 3242 sq.mtrs.  
 (3) 3244 sq.mtrs. (4) 3424 sq.mtrs.  
 (5) None of these

- Q.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)  $25^\circ$  (2)  $40^\circ$   
 (3)  $35^\circ$   
 (4) Cannot be determined  
 (5) None of these
- Q.124. Pradeep invested 20% more than Mohit. Mohit invested 10% less than Raghu. If the total sum of their investment is Rs. 17,880/-, how much amount did Raghu invest?  
 (1) Rs. 6,000/- (2) Rs. 8,000/-  
 (3) Rs. 7,000/- (4) Rs. 5,000/-  
 (5) None of these
- Q.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 score 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
- Q.126. Fifty three percent of a number is 358 less than the square of 26. What is the value of three-fourth of 23 percent of that number?  
 (1) 101 (2) 109.5  
 (3) 113 (4) 103.5  
 (5) None of these
- Q.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 in 4 hours if the speed of the bus is twice speed of the tractor?
- (1) 340 kms (2) 480 kms  
 (3) 360 kms (4) 450 kms  
 (5) None of these
- Q.128. The simple interest accrued on a sum of certain principal is Rs. 2,000/- in five years at the rate of p.c.p.a. What would be the compound interest accrued on a principal at same rate in two years?
- (1) Rs. 716/- (2) Rs. 724/-  
 (3) Rs. 824/-  
 (4) Rs. 816/-  
 (5) None of these
- Q.129. Rehaan purchased a bike for Rs. 54,000/- He sold it at a loss of 8 percent. With that money he again purchased another bike and sold it at a profit of 10 percent. What is his overall loss/profit?
- (1) Loss of Rs. 657/-  
 (2) Profit of Rs. 567/-  
 (3) Loss of Rs. 648/-  
 (4) Profit of Rs. 648/-  
 (5) None of these
- Q.130. Two men alone or three women alone can complete a piece of work in 4 days. In how many days can 1 woman and one man together complete the same piece of work?
- (1) 6 days (2)  $\frac{25}{5}$  day  
 (3)  $\frac{12}{1.75}$  days  
 (4) Cannot be determined  
 (5) None of these

131-135. Study the table carefully to answer the questions that follow:

Number of employees working in four different companies in five different years

Years	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

- Q.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
- Q.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
- Q.133. Total number of male employees working in Company-C over all the years together

Solved Paper

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

Q.134. If 20 percent of male and 30 percent 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?

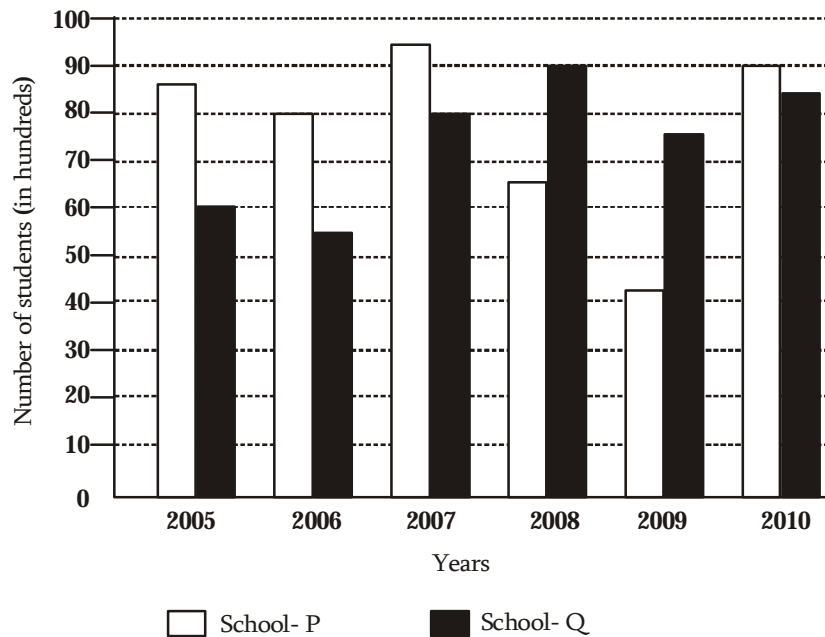
- (1) 185
- (2) 170
- (3) 190
- (4) 195
- (5) None of these

Q.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

136-140. Study the following graph carefully to answer the questions that follow:

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



Q.136. What was the approximate percent 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

Q.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

Q.138. What was the difference between the total number of students who qualified in the exam in the year 2005 from both 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

Q.139. Total number of students of 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?

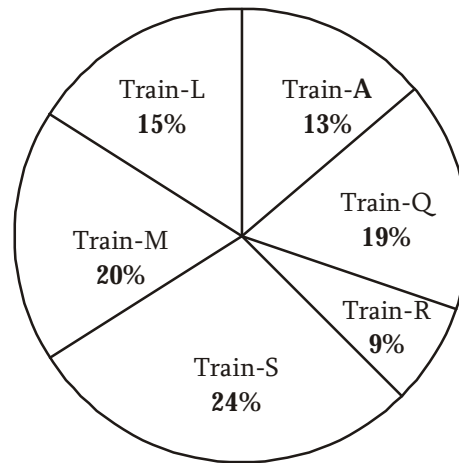
- (1) 143                      (2) 159  
 (3) 155                      (4) 165  
 (5) 147

Q.140. If 40 percent 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 exam over all the years from both the schools together?

- (1) 51000  
 (2) 54000  
 (3) 56000  
 (4) 52000  
 (5) None of these

141-145. Study the following Pie-chart carefully to answer these questions.

**Total number of Passengers = 8500**  
**Percentage of Passengers**



Q.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

Q.142. If in train-R 34 percent of the passengers are females and 26 percent are children, what is the number of males in that train?

- (1) 306                      (2) 316  
 (3) 308                      (4) 318  
 (5) None of these

Q.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

**Solved Paper**

- Q.144. Which train has second highest number of passengers?  
 (1) A (2) Q  
 (3) S (4) M  
 (5) L
- Q.145. How much more percent (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

146-150. Study the following table carefully to answer the questions that follow.

Monthly Rent (in Rs. Thousands) at five different Place in six different years

Years	Place				
	Churchgate	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

- Q.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
- Q.147. In which year at Churchgate, the monthly rent increased more than 100 percent from the previous year?  
 (1) 2006  
 (2) 2007  
 (3) 2008  
 (4) 2009  
 (5) 2010
- Q.148. What was the different between the monthly rent at Dadar in the year 2009 and Borivali in the year 2007?  
 (1) Rs. 7,600/-
- (2) Rs. 7,990/-  
 (3) Rs. 8,100/-  
 (4) Rs. 8,600/-  
 (5) None of these
- Q.149. Monthly rent at Kandivali in the year 2008 was approximately what percent of the total monthly rent at Virar over all the years together?  
 (1) 30  
 (2) 33  
 (3) 38  
 (4) 42  
 (5) 45
- Q.150. Which city was most expensive in terms of rent?  
 (1) Churchgate  
 (2) Dadar  
 (3) Kandivali  
 (4) Borivali  
 (5) virar

**ANSWERS**

101.(2)	102.(3)	103.(5)	104.(1)	105.(2)	106.(3)	107.(4)	108.(5)	109.(2)	110.(2)
111.(4)	112.(1)	113.(1)	114.(3)	115.(5)	116.(2)	117.(3)	118.(5)	119.(3)	120.(3)
121.(3)	122.(5)	123.(3)	124.(1)	125.(2)	126.(4)	127.(3)	128.(4)	129.(4)	130.(2)
131.(5)	132.(1)	133.(4)	134.(1)	135.(1)	136.(3)	137.(2)	138.(1)	139.(5)	140.(2)
141.(4)	142.(1)	143.(5)	144.(4)	145.(4)	146.(5)	147.(1)	148.(2)	149.(5)	150.(1)

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