



**TEST III
QUANTITATIVE APTITUDE**

81-90. What should come in place of the question mark (?) in the following questions?

81. $6389 - 1212 - 2828 = ?$

- (A) 2349 (B) 2493
(C) 2934 (D) 2394
(E) None of these

82. $\frac{31}{4} \times \frac{86}{95} \times \frac{41}{93} = ?$

- (A) $\frac{82}{267}$ (B) $\frac{82}{283}$
(C) $\frac{83}{265}$ (D) $\frac{82}{285}$
(E) None of these

83. $526 \times 12 + 188 = 50 \times ?$

- (A) 120 (B) 160

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- (C) 140 (D) 110
(E) None of these
84. $62^2 - 32^2 + (?)^2 = 3144$
(A) 17 (B) 16
(C) 19 (D) 15
(E) None of these
85. $\sqrt[3]{21952+33} = ?$
(A) 58 (B) 61
(C) 63 (D) 51
(E) None of these
86. $?% \text{ of } 5600 - 28\% \text{ of } 3500 = 1988$
(A) 58 (B) 55
(C) 51 (D) 53
(F) None of these
87. $32000 \times \frac{3}{4} \times ? \times \frac{1}{2} = 4800$
(A) $\frac{2}{3}$ (B) $\frac{3}{5}$
(C) $\frac{2}{5}$ (D) $\frac{1}{4}$
(E) None of these
88. $(8536 \sqrt{2209}) \times 0.3 = ?$
(A) 2256.7 (B) 2456.7
(C) 2546.7 (D) 2645.7
(E) None of these
89. $\frac{5}{8} + \frac{1}{4} + \frac{7}{12} = ?$
(A) $1\frac{11}{24}$ (B) $1\frac{13}{24}$
(C) $1\frac{9}{26}$ (D) $1\frac{7}{24}$
(E) None of these
90. $(3584 \div 32) - 11 = \sqrt{?}$
(A) 10021 (B) 12001
(C) 10221 (D) 10201
(E) None of these
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- 91-95. What should come in place of the question mark (?) in the following number series?
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91. 4 19 49 94 154 ?
(A) 223 (B) 225
(C) 229 (D) 239
(E) None of these
92. $\frac{1}{2}$ 1 $1\frac{1}{2}$ 2 $2\frac{1}{2}$ 3 ?
(A) $3\frac{1}{2}$ (B) $2\frac{1}{3}$
(C) 4 (D) $3\frac{1}{4}$
(E) None of these
93. 101 103 99 97 ? 95
(A) 93 (B) 104
(C) 108 (D) 107
(E) None of these
94. 3 219 344 408 ? 444
(A) 416 (B) 435
(C) 423 (D) 428
(E) None of these
95. 7 10 16 28 52 ? 196
(A) 100 (B) 90
(C) 160 (D) 150
(E) None of these
96. The average of five numbers is 57.8. The average of the first and the second numbers is 77.5 and the average of the fourth and fifth numbers is 46. What is the third number?
(A) 45 (B) 43
(C) 42
(D) Cannot be determined
(E) None of these

97. Mr. Nair's monthly salary is Rs. 22,500/-. He took a loan of Rs. 30,000/- on simple interest for 3 years at the rate of 5 p.c.p.a. The amount that he will be paying as simple interest in 3 years is what percent of his monthly salary?
 (A) 10 (B) 18
 (C) 20 (D) 25
 (E) None of these
98. If the numerator of a certain fraction increased by 100% and the denominator is increased by 200% the new fraction thus formed is $\frac{4}{21}$. What is the original fraction.
 (A) $\frac{2}{7}$ (B) $\frac{3}{7}$
 (C) $\frac{2}{5}$ (D) $\frac{4}{7}$
 (E) None of these
99. In how many different ways can the letters of the word 'SIMPLE' be arranged?
 (A) 520 (B) 120
 (C) 5040 (D) 270
 (E) None of these
100. 52% students from a college participated in a survey. What is the respective ratio between the number of students who did not participate in the survey to the number of students who participated?
 (A) 11 : 13 (B) 12 : 13
 (C) 12 : 17
 (D) Cannot be determined
 (E) None of these

101-105. Study the following table carefully and answer the questions that follow:

Number of students specializing in different fields from six different colleges, M- Males, F-Females

Name of college	Specialization											
	Economic		Marketing		HRM		Sociology		Psychology		Political Science	
	M	F	M	F	M	F	M	F	M	F	M	F
K	35	45	34	47	18	36	25	45	21	34	24	56
L	62	65	34	14	15	58	18	56	56	65	58	86
M	18	28	67	25	26	85	25	35	64	85	68	46
N	33	24	23	19	45	54	24	34	54	75	57	86
O	28	10	45	25	14	47	48	54	21	36	46	56
P	53	34	34	30	27	20	32	78	21	96	79	35

101. What is the average number of females specializing in HRM from all colleges together?
 (A) 30 (B) 45
 (C) 50 (D) 55
 (E) None of these
102. The total number of males in college L are approximately what percent of total females from the same college?
 (A) 10 (B) 30
 (C) 50 (D) 110
 (E) 70

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103. What is the respective ratio between the total number of students specializing in Economics from college P and the total number of students specializing in Psychology from the same college?
 (A) 29 : 31 (B) 25 : 34
 (C) 28 : 39 (D) 25 : 39
 (E) None of these
104. The total number of females specializing in Political Science from colleges K, N and P together are approximately what percent of the males specializing in the same field from the same colleges?
 (A) 210 (B) 90
 (C) 190 (D) 150
 (E) 110
105. How many students are there in college M from all the specialization together?
 (A) 574 (B) 576
 (C) 572 (D) 568
 (E) None of these
106. How much will be the compound interest to be paid on a principle amount of Rs. 53,000/- after 2 years at the rate of 4 p.c.p.a.?
 (A) Rs. 4,324.8/- (B) Rs. 4,432.8/-
 (C) Rs. 4,342.8/- (D) Rs.4,234.8/-
 (E) None of these
107. The area of a rectangle is twice the area of a triangle. The perimeter of the rectangle is 58 cms. What is the area of the triangle?
 (A) 106 cm² (B) 108 cm²
 (C) 104 cm²
 (D) Cannot be determined
 (E) None of these
108. Yesterday Shweta complete 300 units of work at the rate of 15 units per minute. Today she completed the same units of work but her speed was 40% faster than yesterday. What is the approximate difference in the time she took to complete the work yesterday and the time she took today?
 (A) 16 mins (B) 26 mins
 (C) 46 mins (D) 36 mins
 (E) 6 mins
109. The average speed of a bus is 8 times the average speed of a bike. The bike covers a distance of 186 kms in 3 hours. How much distance will the bus cover in 10 hours?
 (A) 4069 kms (B) 4096 kms
 (C) 4960 kms (D) 4690 kms
 (E) None of these
110. What is the value of (x) in the following equation?

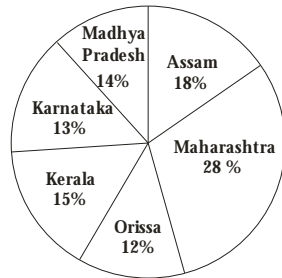
$$\frac{(x)^{1.2}}{98} = \frac{28}{(x)^{1.8}}$$

 (A) 18 (B) 12
 (C) 16 (D) 14
 (E) None of these
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- 111-115. What **approximate** value should come in place of the question mark (?) in the following questions?
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- (Note: You are not expected to calculate the exact value.)
111. $\sqrt[3]{1231} = ?$
 (A) 10 (B) 30
 (C) 50 (D) 70
 (E) 100
112. $507.893 + 253.013 + 199.781 = ?$
 (A) 760 (B) 860
 (C) 560 (D) 460
 (E) 960
113. $7231 \div 21 \times 1.7 = ?$

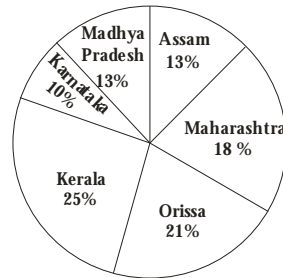
- (A) 585 (B) 650 (C) 25 (D) 95
 (C) 555 (D) 525 (E) 65
 (E) 505
 114. $\sqrt{9355} = ?$ (A) 3 (B) 13
 (A) 35 (B) 115 (C) 33 (D) 53
 (E) 43

116-120. Study the following pie charts carefully and answer the questions that follow:

Percentage of students from different states attending a national seminar
 Total students: 8000



Percentage of female students from different states attending a national seminar
 Total female students: 3500



116. What is the respective ratio between the number of female students from Karnataka to the number of female students from Kerala?
 (A) 2 : 7 (B) 2 : 5
 (C) 2 : 3 (D) 3 : 7
 (E) None of these
117. What is the total number of male students from Maharashtra and Madhya Pradesh together?
 (A) 2175 (B) 2725
 (C) 2527 (D) 2275
 (E) None of these
118. What is the respective ratio between the number of male students from Assam and the number of male students from Madhya Pradesh?
 (A) 197 : 134 (B) 197 : 135
 (C) 197 : 133
 (D) 199 : 133
 (E) None of these
119. What is the respective ratio between the number of female students from Karnataka and the number of male students from the sample state?
 (A) 35 : 69 (B) 32 : 69
 (C) 38 : 69 (D) 35 : 67
 (E) None of these
120. The number of female students from Assam are **approximately** what percent of the male students from the same state?
 (A) 14
 (B) 28
 (C) 96
 (D) 66
 (E) 46