

## TEST II

### NUMERICAL ABILITY

**Directions (Q. 51-55)** What should come in place of question mark (?) in the following questions?

51.  $83.04 - 66.46 - 11.71 = ?$

- (1) 5.63 (2) 2.92  
(3) 3.87 (4) 4.76  
(5) None of these

52.  $3.4 \times 85 \div 2.5 = ?$

- (1) 104.8 (2) 121.2  
(3) 115.6 (4) 108.4  
(5) None of these

53.  $\sqrt[3]{4096} = ?$

- (1) 29 (2) 26  
(3) 19 (4) 16  
(5) None of these

54.  $19.25 \times 16.4 \times ? = 3472.7$

- (1) 15 (2) 17  
(3) 12 (4) 14  
(5) None of these

55.  $14\% \text{ of } 255 + ?\% \text{ of } 405 = 124.8$

- (1) 22 (2) 24  
(3) 18 (4) 15  
(5) None of these

**Directions (Q. 56-60)** 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.)

56.  $(23.001)^2 = ?$

- (1) 470 (2) 530  
(3) 650 (4) 500  
(5) 620

57.  $33.0003\% \text{ of } 509.999 = ?$

- (1) 155 (2) 185  
(3) 170 (4) 100  
(5) 140

58.  $1212.12 + 2121.21 + 1122.22 = ?$

- (1) 4000 (2) 4455  
(3) 5000 (4) 5555  
(5) 4555

59.  $919.999 + 25.002 \times 13.996 = ?$

- (1) 495 (2) 525  
(3) 450 (4) 515  
(5) 540

60.  $30.003 \times 17.998 + 63.010 = ?$

- (1) 575 (2) 600  
(3) 550 (4) 650  
(5) 500

**Directions (Q. 61-65)** What should come in place of question mark (?) in the following number series?

61. 2.5 4 ? 10 14.5 20 26.5

- (1) 8 (2) 7.5 (3) 6  
(4) 5.5 (5) None of these

62. 4 5 12 39 160 805?

- (1) 4836 (2) 3224  
(3) 5642 (4) 4030  
(5) None of these

63. 8 108 189 253 302 ? 363

- (1) 351 (2) 327  
(3) 338 (4) 311  
(5) None of these

64. 248 217 188 165 ? 129 116

- (1) 144 (2) 136  
(3) 134 (4) 146  
(5) None of these

65. 3 15 39 75 123 183 ?

- (1) 255 (2) 218 (3) 243  
(4) 225 (5) None of these

66. What would be the cost of laying a carpet on a floor which has its length and breadth in the respective ratio of 32 : 21 and where its perimeter is 212 feet, if the cost per square foot of laying the carpet is ₹ 2.5?

- (1) ₹ 6720 (2) ₹ 5420  
(3) ₹ 7390 (4) Cannot be determined

67. The simple interest accrued on an amount at the end of five years @ 12.5 p.c.p.a. is ₹ 1575. What is the amount?

- (1) ₹ 2050 (2) ₹ 2550  
(3) ₹ 2250 (4) ₹ 2520  
(5) None of these

68. A 260 m long train crosses a platform thrice its length in 80 s. What is the speed of the train in km/h?

- (1) 52.4 (2) 46.8  
(3) 35.1 (4) Cannot be determined  
(5) None of these

69. If the cost of 8 erasers and 5 sharpeners is ₹ 31, what will be the cost of 24 erasers and 10 sharpeners?

- (1) ₹ 62 (2) ₹ 84  
(3) ₹ 78 (4) Cannot be determined  
(5) None of these

70. In how many different ways can the letters of the word 'PRETTY' be arranged?

- (1) 120 (2) 36 (3) 360  
(4) 720 (5) None of these

71. A boat while travelling upstream covers a distance of 18 km at the speed of 3 km/h, whereas while travelling downstream it covers the same distance at a speed of 9 km/h. What is the speed of the boat in still water?

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

72. What is the area of a circle whose circumference is 132 cm?

- (1) 1562 sq.cm (2) 1386 sq.cm  
(3) 1434 sq.cm (4) 1836 sq.cm  
(5) None of these

73. Shreyas bought an article and sold it for 125% of its cost price. What was the cost price of the article, if Shreyas sold it for ₹ 30750?
- (1) ₹ 24600 (2) ₹ 25640  
 (3) ₹ 24250 (4) ₹ 23200  
 (5) None of these
74. The ages of Mira, Tina and Sania are in the ratio of 6 : 4 : 7 respectively. If the sum of their ages is 34 yr, what is Sania's age?
- (1) 12 yr (2) 10 yr  
 (3) 18 yr (4) 8 yr  
 (5) None of these
75. A basket contains three red and four green balls. If four balls are drawn at random from the basket, what is the probability that two are red and two are green?
- (1)  $\frac{4}{7}$  (2)  $\frac{2}{7}$   
 (3)  $\frac{18}{35}$  (4)  $\frac{3}{14}$   
 (5) None of these

**Directions (Q. 76–80)** 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

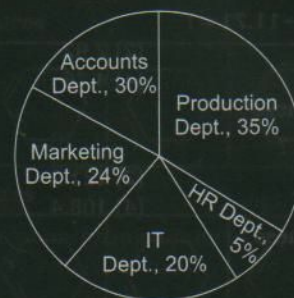
Give answer (1) if the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.  
 Give answer (2) if the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient 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.

76. What is the product of X and Y?
- I.  $Y = X - 28$   
 II.  $-42 - 12 = X$
77. What is the rate of interest p.c.p.a.?
- I. An amount doubles itself in five years at simple interest.  
 II. Simple interest of ₹ 1600 is obtained in two years on an amount of ₹ 4000.
78. In how many hours can A alone complete the piece of work?
- I. B alone can complete the piece of work in 28 h.  
 II. A, B and C together can complete the piece of work in 18 h.
79. What will Anjali's age be 5 yr from now?
- I. Anjali's present age is twice Tosha's present age.  
 II. Tosha, who is half Anjali's present age, was 21 yr old 5 yr ago.
80. What is the perimeter of the square?
- I. The measure of one of its sides is given.  
 II. The measure of its diagonal is given.

**Directions (Q. 81–85)** Study the following pie chart and table carefully to answer the questions :

**PERCENTAGE BREAKUP OF EMPLOYEES WORKING IN VARIOUS DEPARTMENTS OF AN ORGANIZATION AND THE NUMBER OF MALES IN THEM**

TOTAL NUMBER OF EMPLOYEES = 800



DEPARTMENT	NO. OF MALES
Production	245
HR	12
IT	74
Marketing	165
Accounts	93

81. The number of Males working in the Marketing department is what percent of the total number of employees working in that department? (Rounded off to the nearest integer)
- (1) 70 (2) 78  
 (3) 63 (4) 91  
 (5) 86
82. What is the respective ratio between the number of Females working in the HR department and the total number of employees in that department?
- (1) 7 : 10 (2) 5 : 7  
 (3) 8 : 17 (4) 12 : 19  
 (5) None of these
83. The number of Males working in the Production department of the Organization forms what percent of the total number of employees working in that department?
- (1) 76.5 (2) 72.5  
 (3) 61.5 (4) 87.5  
 (5) None of these
84. The number of Females working in the IT department forms what percent of the total number of employees in the Organization from all departments together?
- (1) 10.75 (2) 15.25  
 (3) 11.5 (4) 13.75  
 (5) None of these
85. What is the respective ratio of the number of Males working in the Marketing department to the number of Females working in that department?
- (1) 63 : 8  
 (2) 55 : 9  
 (3) 64 : 7  
 (4) 56 : 3  
 (5) None of the above

Directions (Q. 86–90) Study the following table carefully to answer the questions that follow :

NUMBER OF UNITS MANUFACTURED (M) AND SOLD (S) (IN HUNDREDS) BY FIVE DIFFERENT COMPANIES OVER THE YEARS

Company Year	A		B		C		D		E	
	M	S	M	S	M	S	M	S	M	S
2006	2.8	1.3	3.3	2.2	2.6	1.7	3.0	2.2	1.9	1.4
2007	3.2	2.0	2.4	1.6	2.2	1.5	2.5	1.9	2.0	1.7
2008	1.9	0.9	2.9	1.6	2.1	1.0	2.3	1.5	1.6	1.1
2009	1.0	0.4	2.4	1.3	2.8	1.4	2.1	1.2	3.2	2.5
2010	2.5	1.5	2.3	1.2	2.6	2.1	1.8	1.1	3.1	2.6

86. What is the total number of units manufactured by Company C over all the years together?  
 (1) 1420 (2) 1030  
 (3) 1230 (4) 1320  
 (5) None of these
87. What is the **approximate** percent increase in the number of units sold by Company E in the year 2007 from the previous year?  
 (1) 17 (2) 36  
 (3) 27 (4) 32  
 (5) 21
88. The number of units sold by Company D in the year 2006 is what percent of the number of units manufactured by it in that year? (rounded off to two digits after decimal)  
 (1) 52.63 (2) 61.57  
 (3) 85.15 (4) 73.33  
 (5) None of these
89. What is the respective ratio of total number of units manufactured by Company A and B together in the year 2009 to those sold by them in the same year?  
 (1) 5 : 2 (2) 3 : 1  
 (3) 7 : 5 (4) 3 : 2  
 (5) None of these
90. What is the average number of units sold by Company D over all the years together?  
 (1) 166 (2) 158  
 (3) 136 (4) 147  
 (5) None of these
91. What is the respective ratio of girls to boys in College T?  
 (1) 2 : 3 (2) 3 : 5  
 (3) 2 : 5 (4) 5 : 7  
 (5) None of these
92. Number of boys in college S forms approximately what percent of number of boys in college Q?  
 (1) 75 (2) 116  
 (3) 128 (4) 88  
 (5) 133
93. Number of girls from college R forms what percent of the total number of students from all the colleges together? (rounded off to two digits after decimal)  
 (1) 8.26 (2) 5.18  
 (3) 6.54 (4) 7.32  
 (5) None of these
94. What is the average number of boys from all the colleges together?  
 (1) 2100 (2) 2000  
 (3) 1800 (4) 1750  
 (5) None of these
95. What is the respective ratio of total number of students from college S to the total number of students from college P?  
 (1) 6 : 11 (2) 7 : 9  
 (3) 13 : 15 (4) 9 : 11  
 (5) None of these

Directions (Q. 96–100) Study the following table carefully to answer the questions that follow :

PERCENTAGE OF MARKS OBTAINED BY FIVE STUDENTS IN THREE SUBJECTS

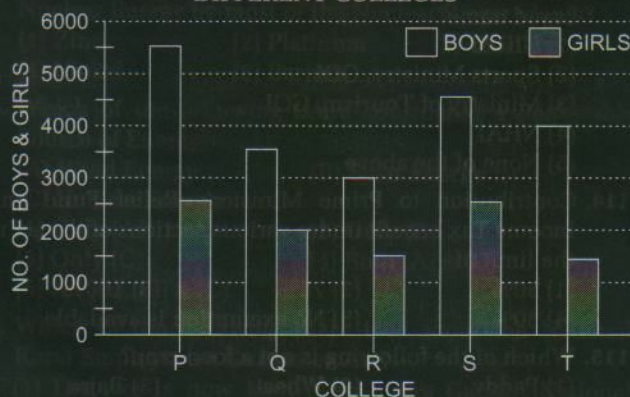
SUBJECT STUDENT	MATHS (150)	SCIENCE (100)	ENGLISH (50)
	Miloni	94	83
Satish	72	88	68
Rachana	86	75	66
Purab	90	61	82
Mansi	68	67	72

NOTE : Figures in brackets indicate maximum marks in that subject.

96. What are the total marks obtained by Satish in all the subjects together?  
 (1) 230 (2) 232  
 (3) 228 (4) 226  
 (5) None of these

Directions (Q. 91–95) Study the following graph carefully to answer the questions that follow :

NUMBER OF BOYS AND GIRLS STUDYING IN FIVE DIFFERENT COLLEGES



97. What are the average marks obtained by all the students in Maths?  
(1) 137 (2) 123  
(3) 127 (4) 132  
(5) None of these
98. What is Miloni's overall percentage in the exam?  
(1) 75 (2) 79  
(3) 87 (4) 85  
(5) None of these
99. What is the respective ratio of marks obtained by Purab in Science and English together to the marks obtained by Rachana in the same subjects?  
(1) 17 : 18 (2) 11 : 13 (3) 15 : 19  
(4) 21 : 23 (5) None of these
100. How many students have scored more than 80 percent in more than one subject?  
(1) None (2) One (3) Two  
(4) Three (5) Five