Data Analysis and Interpretation

Directions (Q. 51–55) *Study the following table carefully to answer the questions that follow —*

Number (N) of six type of Electronic Products sold by Six different stores in a month and the price per product (P) (price in ₹ '000) charged by each Store

Store	A		B		C		D		E		F	
Product	N	P	N	P	N	P	N	P	N	P	N	P
L	54	135	48	112	60	104	61	124	40	136	48	126
M	71	4.5	53	3.8	57	5.6	49	4.9	57	5.5	45	4.7
N	48	12	47	18	52	15	54	11.5	62	10.5	56	11
O	52	53	55	48	48	50	54	49	59	47	58	51
P	60	75	61	68	56	92	44	84	46	76	59	78
Q	43	16	44	15	45	14.5	48	15.6	55	18.2	55	14.9

51. What is the total amount earned by Store C through the sale of M and O type products together ?
(1) ₹ 2719.2 lakh
(2) ₹ 271.92 lakh
(3) ₹ 2.7192 lakh
(4) ₹ 27.192 lakh
(5) None of the above

52. Number of L type product sold by Store F is what percent of the number same type of products sold by Store E?
(1) 76.33
(2) 124
(3) 83.33
(4) 115
(5) None of the above

53. What is the difference in the amount earned by Store A through the sale of P type products and that earned by Store B through the sale of Q type products ?
(1) ₹ 38.4 lakh
(2) ₹ 0.384 lakh
(3) ₹ 3.84 lakh
(4) ₹ 384 lakh
(5) None of these

54. What is the respective ratio of total number of N and L type products together sold by Store D and the same products sold by Store A ?
(1) 119 : 104
(2) 102 : 115
(3) 104 : 115
(4) 117 : 103
(5) None of these

55. What is the average price per product charged by all the Stores together for Product Q ?
(1) ₹ 14700
(2) ₹ 15700
(3) ₹ 15200
(4) ₹ 14800
(5) None of these

Directions (Q. 56–60) *Study the given information carefully to answer the questions that follow —*

An Organization consists of 2400 employees working in different departments, viz, HR, Marketing, IT, Production and Accounts. The ratio of male to female employees in the Organization is 5 : 3 respectively. Twelve percent of the males work in the HR department. Twenty four percent of the females work in the Accounts department. The ratio of males to females working in the HR department is 6 : 11 respectively. One-ninth of the females work in the IT department. Forty two percent of the males work in the Production department. Number of females working in the Production department is ten percent of the males working in the same. The remaining females work in the Marketing department. The total number of employees working in the IT department is 285. Twenty two percent of the males work in the marketing department and the remaining work in the counts department.

56. How many males work in the Accounts department ?
(1) 170
(2) 165
(3) 185
(4) 160
(5) None of these

57. The number of males working in the IT department forms approximately what percent of the total number of males in the organization ?
(1) 5
(2) 12
(3) 21
(4) 8
(5) 18

58. What is the total number of females working in the HR marketing department together ?
(1) 363
(2) 433
(3) 545
(4) 521
(5) None of the above

59. The number of females working in the Production department forms what percent of the total number of females in the organization ?
(1) 7
(2) 12
(3) 4
(4) 15
(5) None of the above

60. The total number of employees working in the Accounts department forms what percent of the total number of employees in the organization ? (rounded off to two digits after decimal)
(1) 19.34
(2) 16.29
(3) 11.47
(4) 23.15
(5) None of the above

Directions (Q. 61–65) *Study the graphs carefully to answer the questions the follow :*

Total number of children in 6 different schools and the percentage of girls in them

Number of Children

Percentage of Girls
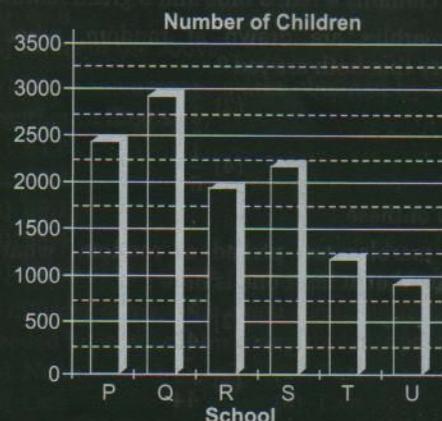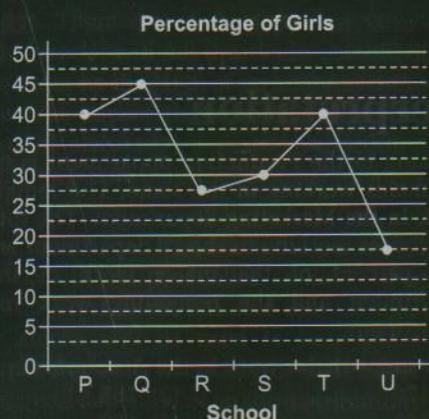
61. What is the total number of boys in School T ?
(1) 500   (2) 600
(3) 750   (4) 850
(5) None of these

62. The total number of students in school R is approximately what percent of the total number of students in school S ?
(1) 89   (2) 75
(3) 78   (4) 82
(5) 94

63. What is the respective ratio of the number girls in school P to the number of girls in school Q ?
(1) 27 : 20
(2) 17 : 21
(3) 20 : 27
(4) 21 : 17
(5) None of the above

64. What is the total percentage of boys in schools R and U together ? (rounded off to two digits after decimal)
(1) 78.55   (2) 72.45
(3) 76.28   (4) 75.83
(5) None of these

65. What is the average number of boys in schools P and Q together ?
(1) 1425   (2) 1575
(3) 1450   (4) 1625
(5) None of these

Directions (Q.66–68) *Study the given information carefully and answer the questions that follow.*
A basket contains 4 red, 5 blue and 3 green marbles.

66. If two marbles are drawn at random, what is the probability that both are red ?
(1) $\dfrac{3}{7}$ (2) $\dfrac{1}{2}$
(3) $\dfrac{2}{11}$ (4) $\dfrac{1}{6}$
(5) None of these

67. If three marbles are picked at random, what is the probability that at least one is blue ?
(1) $\dfrac{7}{12}$ (2) $\dfrac{37}{44}$
(3) $\dfrac{5}{12}$ (4) $\dfrac{7}{44}$
(5) None of these

68. If three marbles are picked at random, what is the probability that either all are green or all are red ?
(1) $\dfrac{7}{44}$ (2) $\dfrac{7}{12}$
(3) $\dfrac{5}{12}$ (4) $\dfrac{1}{44}$
(5) None of these

Directions (Q. 69–70) *Study the given information carefully and answer the questions that follow.*

A committee of five members is to be formed out of 3 trainees, 4 professors and 6 research associates. In how many different ways can this be done if—

69. The committee should have 2 trainees and 3 research associates ?
(1) 15
(2) 45
(3) 60
(4) 9
(5) None of these

70. The committee should have all 4 professors and 1 research associate or all 3 trainees and 2 professors ?
(1) 12   (2) 13
(3) 24   (4) 52
(5) None of these

Directions (Q. 71–75) *Study the tables carefully to answer the questions that follow.*

Number of candidates (in lakhs) appearing in an entrance examination from six different cities and the ratio of candidates passing and failing in the same

City	A	B	C	D	E	F
Number of Candidates	1.25	3.14	1.08	2.27	1.85	2.73

Ratio of candidates passing and failing within the city

City	Passing	Failing
A	7	3
B	5	3
C	4	5
D	1	3
E	3	2
F	7	5

71. The number of candidates appearing for the exam from City C is what percent of the number of candidates appearing for the exam from City B ? (rounded off to be nearest integer)
(1) 27   (2) 34
(3) 42   (4) 21
(5) 38

72. What is the number of candidates passing in the exam from City E ?
(1) 13000   (2) 1110000
(3) 113000   (4) 11000
(5) None of these

73. What is the respective ratio of the number of candidates failing in the exam from City D to those failing in the exam from City A ?
   (1) 289 : 42
   (2) 42 : 289
   (3) 227 : 50
   (4) 50 : 227
   (5) None of these

74. Number of candidates passing in the exam from City F is what percent of the total number of candidates appearing from all the cities together ? (rounded off to two digits after the decimal)
   (1) 12.93
   (2) 14.46
   (3) 10.84
   (4) 11.37
   (5) None of these

75. Which city has the highest number of students failing in the entrance exam ?
   (1) F
   (2) C
   (3) G
   (4) D
   (5) None of the above

Directions (Q. 76–80) *Study the graph carefully to anser the questions that follow.*

Percent profit made by two companies over the years

$$\text{Percent Profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

76. If the amount of profit earned by Company A in the year 2007 was ₹ 1.5 lakh, what was its expenditure in that year ?
   (1) ₹ 1.96 lakh
   (2) ₹ 2.64 lakh
   (3) ₹ 1.27 lakh
   (4) ₹ 3.75 lakh
   (5) None of the above

77. What is the respective ratio of the amount of profit earned by Company A and B in the year 2009 ?
   (1) 2 : 3
   (2) 4 : 7
   (3) 11 : 15
   (4) Cannot be determined
   (5) None of the above

78. If in the year 2004 the expenditure incurred by Company A and B was the same, what was respective ratio of the Income of Company A and B in that year ?
   (1) 27 : 28
   (2) 14 : 23
   (3) 13 : 19
   (4) Cannot be determined
   (5) None of the above

79. What is the average percent profit earned by Company B over all the years together ?
   (1) $19\frac{1}{3}$
   (2) $24\frac{1}{6}$
   (3) $12\frac{1}{3}$
   (4) $37\frac{1}{6}$
   (5) None of these

80. If in the year 2008, the income of both the companies A and B was the same, what was the respective ratio of expenditure of Company A to the expenditure of Company B in that year ?
   (1) 21 : 25
   (2) 7 : 9
   (3) 13 : 15
   (4) Cannot be determined
   (5) None of the above

Directions (Q. 81–85) *Study the given table carefully to answer the questions that follow.*

Percentage of marks obtained by five students if five different subjects in a school

| Student	English (100)	Science (125)	Mathem -atics (150)	Social Studies (75)	Hindi (50)
Rahul	67	84	70	64	90
Venna	59	72	74	88	84
Soham	66	90	84	80	76
Shreya	71	66	80	66	86
Varun	63	76	88	68	72

Figure in brackets indicate maximum marks for a particular subject.

81. What is Varun's overall percentage in the examination ?
   (1) 81.5
   (2) 78.2
   (3) 75.4
   (4) 69.8
   (5) None of the above

82. What are the average marks obtained by all the students together in English ?
   (1) 64.6
   (2) 60.4
   (3) 66.7
   (4) 68.4
   (5) None of the above

83. If in order to pass the exam a minimum of 95 marks are needed in Science, how many students pass in the exam ?
   (1) None
   (2) Three
   (3) One
   (4) Two
   (5) Four

84. What are the total marks obtained by Soham in all the subjects together ?
(1) 396 (2) 408
(3) 402.5 (4) 398.5
(5) None of these

85. What is the respective ratio of total marks obtained by Veena and Shreya together in Mathematics to the marks obtained by Rahul in the same subject ?
(1) 11 : 5 (2) 7 : 9
(3) 5 : 11 (4) 9 : 7
(5) None of these

Directions (Q. 86–90) *Study the given graph carefully to answer the questions that follow.*

Number of people (in thousands) using three different types of mobile services over the years
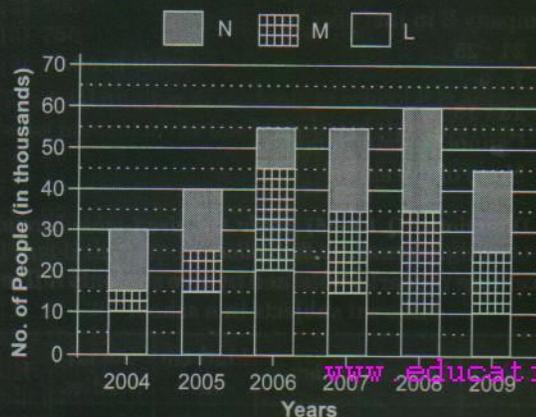
86. What is the total number of people using mobile service M in the years 2008 and 2009 together ?
(1) 35,000 (2) 30,000
(3) 45,000 (4) 25,000
(5) None of these

87. Number of people using mobile service N in the year 2006 forms approximately what percent of the total number of people using all the three mobile serives in that year ?
(1) 18 (2) 26
(3) 11 (4) 23
(5) 29

88. What is the respective ratio of number of people using mobile service L in the year 2005 to those using the same service in the year 2004 ?
(1) 8 : 7 (2) 3 : 2
(3) 19 : 13 (4) 15 : 11
(5) None of these

89. The total number of people using all the three mobile services in the year 2007 is what percent of the total number of people using all the three mobile services in the year 2008 ? (rounded off to two digits after decimal)
(1) 89.72 (2) 93.46
(3) 88.18 (4) 91.67
(5) None of these

90. What is the average number of people using mobile service M for all the years together ?
(1) $16\frac{2}{3}$ (2) $14444\frac{1}{6}$
(3) $16666\frac{2}{3}$ (4) $14\frac{1}{6}$
(5) None of these

Directions (Q. 91–95) *Study the table carefully to answer the questions that follow.*

Distance (in kms) travelled by six trucks on six different days of the week

| Day \ Truck	P	Q	R	S	T	U
Monday	240	250	320	325	330	300
Tuesday	320	264	308	314	318	314
Wednesday	324	294	330	312	310	325
Thursday	288	300	310	278	260	275
Friday	366	302	288	292	270	268
Saturday	292	284	260	274	280	242

91. What is the average distance travelled by truck S in all the days together ?
(1) $198\frac{1}{3}$ (2) $296\frac{1}{6}$
(3) $199\frac{1}{6}$ (4) $299\frac{1}{3}$
(5) None of these

92. If two travel the given distance , the time taken by truck Q on Friday was 8 hours, what was its speed on that day ?
(1) 42.50 km/h (2) 28.25 km/h
(3) 37.75 km/h (4) 32.25 km/h
(5) None of these

93. If the speed of truck P on Monday was 19.2 kms/hr, what was the time taken by it to cover the given distance ?
(1) 10 hours
(2) 11 hours
(3) 9 hours 30 minutes
(4) 12 hours 30 minutes
(5) None of the above

94. If on Tuesday truck R and truck T travelled at the same speed, what was the respective ratio of time taken by truck R and time taken by truck T to cover their respective distances ?
(1) 154 : 159
(2) 142 : 167
(3) 161 : 173
(4) Cannot be determined
(5) None of the above

95. What is the total distance travelled by all the trucks together on Saturday ?
(1) 1623 km (2) 1632 km
(3) 1263 km (4) 1362 km
(5) None of these

Directions (Q.96–100) *Study the following pie-charts carefully and answer the questions given below.*

Disciplinewise Break-up of Number of candidates appeared in Interview and Disciplinewise Break-up and Number of candidates selected by an organization

Disciplinewise Break-up of
Number of candidates appeared
by the organization

**Total Number of Candidates Appeared
in the Interview = 25780
Percentage**

- Others 12
- Commerce 18
- Agriculture 14
- Management 12
- Science 28
- Engineering 16
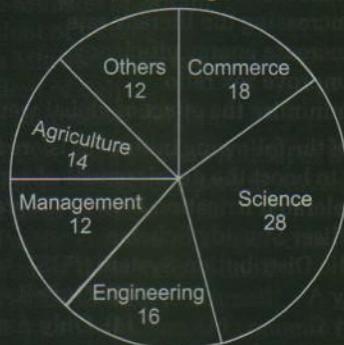
Disciplinewise Break up of
Number of candidates selected
after Interview by the organization

**Total Number of Candidates Selected
after the Interview = 7390
Percentage**

- Others 14
- Commerce 16
- Agriculture 7
- Management 20
- Engineering 11
- Science 32
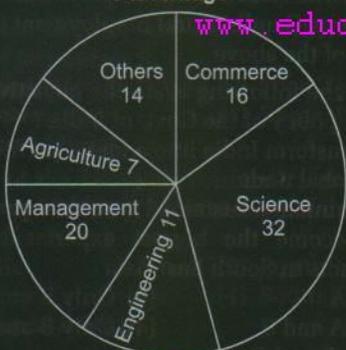
96. Approximately what was the difference between he number of candidates selected from Agriculture discipline and number of candidates selected from Engineering discipline ?
    (1) 517   (2) 665
    (3) 346   (4) 813
    (5) 296

97. For which discipline was the difference in number of candidates selected to number of candidates appeared in interview the maximum ?
    (1) Management
    (2) Engineering
    (3) Science
    (4) Agriculture
    (5) None of the above

98. The total number of candidates appeared in interview from Management and other discipline was what percentage of number of candidates appeared from Engineering discipline ?
    (1) 50
    (2) 150
    (3) 200
    (4) Cannot be determined
    (5) None of the above

99. Approximately what was the total number of candidates selected from Commerce and Agricultural discipline together ?
    (1) 1700   (2) 1800
    (3) 2217   (4) 1996
    (5) 1830

100. What was the ratio between the number of candidates appeared in interview from other discipline and number of candidates selected from Engineering discipline respectively (rounded off to the nearest integer) ?
    (1) 3609 : 813
    (2) 3094 : 813
    (3) 3094 : 1035
    (4) 4125 : 1035
    (5) 3981 : 767