Statistics

Introduction of Statistics

EXERCISE

Q.1 The class marks of distribution are :

6, 10, 14, 18, 22, 26,30

Find the class size and the class interval.

Q.2 The class marks of distribution are: 47, 52, 57, 62, 67, 72, 77, 82, 87, 92, 97, 102.

Determine the class size, the class limits and the true class limits.

Q.3 Find the range of the following array of data:

70, 65, 71, 36, 55, 61, 62, 41, 40, 39, 35.

Q.4 Draw the ogive of the following distribution table:

Class interval	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	10	5	8	6	6	4

Q.5 The weights (in kilograms) of 25 students are given as follows:

35, 38, 36, 37, 38, 35, 37, 36, 35, 38, 36, 36, 37, 37, 35, 38, 36, 35, 36, 37, 37, 38, 36, 38, 37.

Complete the following frequency table:

Weights	35	36	37	38
Frequency	ı	_	-	-

Q.6 The marks scored by 55 students in a test are given below :

Marks	No. of students
0-5	2
5-10	6
10-15	13
15-20	17
20-25	11
25-30	4
30-35	2

Prepare a cumulative frequency table

Q.7 A cumulative frequency distribution table is given. Convert this into a frequency distribution table.

Marks	below 45	below 60	below 75	below 90
Number of student	0	8	23	48

Q.8 Draw a frequency table for the following data:

C.I.	C.F.
111-120	6
121-130	11
131-140	16
141-150	20
151-160	27
161-170	36
171-180	42
181-190	45
191-200	50

Q.9 Form the cumulative frequency table of less than series from following data :

C.I.	Frequency
0-10	3
10-20	12
20-30	36
30-40	76
40-50	97
50-60	85
60-70	39
70-80	12
80-90	12
90-100	6

Q.10 Construct a c.f. table for the following data:

C.I.	Frequency
4-7	3
8-11	10
12-15	12
16-19	8
20-23	5
24-27	9

ANSWER

- **1.** Class size = 4, Ist Class interval = 4 8
- **2.** Class size = 5, Class limit for first class = 44.5, 49.4.
- **3.** 36
- **4.** C.f. (10, 15, 23, 29, 35, 39)
- **5.** 5, 7, 7,6