SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)
(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.
B.Com.(CS) END SEMESTER EXAMINATIONS NOVEMBER -2023
SEMESTER - III
21UBCCT3008 - Statistics-I

Total Duration : 2 Hrs 30 Mins. Total Marks : 60

Section B

Answer any **SIX** questions $(6 \times 5 = 30$ Marks)

1. Explain the characteristics of statistics.
2. Describe the secondary data collection methods.
3. From the following find out the mean profits.

Profit per shops (Rs.)	**Number of shops**
100-200	10
200-300	18
300-400	20
400-500	26
500-600	30
600-700	28
700-800	18

4. From the following data calculate the median marks.

Marks	**Frequency**
10-19	7
20-29	15
30-39	18
40-49	25
50-59	30
60-69	20
70-79	16
80-89	7
90-99	2

5. Find out the value of quartile deviation and co-efficient of quartile deviation.

Marks	25	30	40	50	60	70	80	90
No of Students	4	7	12	8	9	15	7	3

Contd...

6. Calculate mean deviation and co-efficient of mean deviation from the following data.

X	f
0-20	4
20-40	8
40-60	10
60-80	15
80-100	20
100-120	8
120-140	9
140-160	11

7. The marks obtained by 100 students of a class are given below.

Marks	30	32	37	42	55	67	69	75
No. of Students	9	11	17	20	10	13	9	11

Calculate Karl Pearson's co-efficient of skewness.

8. Represent the following data in a suitable bar diagram.

Year	Sales (Rs. in '0000)	Profit / Loss (Rs. in '0000)
1993	44	15
1994	55	-8
1995	65	12
1996	79	-10
1997	87	6
1998	94	11

Section C

Answer any **THREE** questions $(3 \times 10 = 30$ Marks)

9. Examine the various methods of collecting primary data.

10. Represent the following data in a histogram and frequency polygon.

Daily Income	No. of people
0-10	5
10-20	8
20-30	15
30-40	27
40-50	35
50-60	43
60-70	24
70-80	16
80-90	10
90-100	4

11. Calculate the Mean, Median and Mode for the data given below.

Daily Earnings (Rs.)	**No. of Persons**
50-53	3
53-56	8
56-59	14
59-62	30
62-65	36
65-68	28
68-71	16
71-74	10
74-77	5

12. Calculate standard deviation and co-efficient of variation from the data given below.

Class Intervals	**Frequency**
0-5	14
5-10	26
10-15	32
15-20	45
20-25	39
25-30	12
30-35	9
35-40	2

13. Calculate Bowley's co-efficient of skewness from the following data.

Expenses (Rs.)	0-20	20-40	40-60	60-80	80-100	100-120
No. of Families	4	21	18	27	37	5

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