

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 - APRIL 2025
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. What are the methods of collecting primary data?
2. Calculate the mode of the following distribution:

X	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
Y	3	6	10	20	15	5	4	2

3. Calculate mean deviation about the median for the following data:

X	10	11	12	13	14
Y	3	12	12	3	18

4. In a frequency distribution, the coefficient of skewness based on quartiles is 0.6. If the sum of the upper and the lower quartiles is 100 and the median is 38. Find the value of the upper quartile.
5. Draw a percentage bar diagram for the following data.

Expenditure	Company A	Company B
Wages	250	300
Materials	220	270
Taxation	360	250
Profits	130	150
Administration	40	30

6. Calculate the harmonic mean for the following data:

X	10	12	14	16	18	20
Y	5	18	20	10	6	1

7. Calculate standard deviation from the following data:
9,27,18,54,45,72,36,63,81

8. Calculate Karl Pearson's coefficient of skewness from the data given below:

Size	1	2	3	4	5	6	7
Frequency	10	18	30	25	12	3	2

Contd...

Section C

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

9. Explain and illustrate the uses of statistics in commerce and business.
10. Discuss the methods of presentation of statistical data through diagrams.
11. Calculate mean, median and mode from the following data.

Scores	0-10	10-20	20-30	30-40	40-50
Frequency	3	5	9	3	2

12. Find the standard deviation and its coefficient.

Measurement	More than 80	More than 70	More than 60	More than 50	More than 40	More than 30	More than 20	More than 10	More than 0
No.of.articles	5	14	34	65	110	150	170	176	180

13. Calculate Bowley's coefficient of skewness from the data given below:

Profit (in lakhs)	Less than 10	20	30	40	50	60	70
No.of.companies	8	20	40	50	56	59	60
