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.A. Economics - END SEMESTER EXAMINATIONS - NOV'2024
SEMESTER - I
20UECCT1002 - Statistics for Economists-I

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

Section B

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

1. Illustrate the functions of statistics with examples.

2. Explain the methods of data collection.

3. Find the range and standard deviation of weight of the students from the following data:
   41,11,14,65,73,64,53,35,71,55

4. The average weekly salary of male employee in a firm was Rs.5200 and that of female was Rs.4200.The mean salary of all the employees was Rs.5000. Find the percentage of male and female employees.

5. Write the uses of
   a. Histogram b. Pie Diagram c. Cartogram d. Pictogram.

6. An incomplete frequency distribution is given as follows:

Variable	Frequency
10-20	12
20-30	30
30-40	?
40-50	65
50-60	?
60-70	25
70-80	18
TOTAL	229

   Given that the median value is 46, Determine the missing frequencies, using the median formula.

7. Find the arithmetic mean of the following frequency distribution.

X	1	2	3	4	5	6	7
F	5	9	12	17	14	10	6

Contd...

8. What are the Various Measures of Disperssion.

Section C

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

9. Discuss the nature and scope of statistics.

10. Briefly explain the Types of Classification of Data with example

11. The frequency distribution of marks obtained in Math's and English are as follows:

Mid Value of marks	5	15	25	35	45	55	65	75	85	95
No. of Math's students	10	12	13	14	22	27	20	12	11	9
No.of English students	1	2	26	50	59	40	10	8	3	1

Analyse the data by drawing Lorenz curve.

12. Find the mean, median and mode for the given data:
    90, 94, 53, 68, 79, 94, 53, 65, 87, 90, 70, 69, 65, 89, 85, 53, 47, 61, 27, 80.

13. Calculate a) Quartile Deviation and b) Mean Deviation from mean for the following data:

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of students	6	5	8	15	7	6	3

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