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DCBD103

Reg. No. 

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I Semester B.Com. (DA) Degree Examination, April - 2023

BUSINESS STATISTICS - I

Paper : 1.3

(NEP Scheme Freshers and Repeaters)

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer all the questions in English only.

SECTION - A

Answer any FIVE of the following questions. Each question carries 2 marks. (5×2=10)

1. a) Define statistics.
- b) Mention parts of a table.
- c) Mention any two methods of sampling.
- d) Find Range for the following data x : 3,9,12,45,4,17.
- e) What is classification?
- f) What do you mean by Code?
- g) Mention the types of Diagrams?



SECTION - B

Answer any FOUR of the following questions. Each question carries 5 marks. (4×5=20)

2. Calculate Median from the following data.

Mid value	Frequency
115	6
125	25
135	48
145	72
155	60
165	19

[P.T.O.]

(2)

3. Calculate quartile deviation from the following data.

Salary (in Rs.)	No. of workers
600	4
1000	20
1200	21
1400	16
1600	9

4. Explain the different sources of collection of data.
5. For a distribution variance is 9 coefficient of variation is 5% Determine its Mean.
6. In a Town 15% of the population read newspaper A, 13% of the population read newspaper B and 8% of the population read newspaper A and B. Find the probability that a person selected at random shall read either paper A or paper B.

(OR)

Differentiate variation and skewness.

### SECTION - C

Answer any **TWO** of the following questions. Each carries 12 marks. (2×12=24)

7. Compute Karl Pearsons co-efficient of correlation from the following data.

Marks in Accountancy	Marks in English
77	35
54	58
27	60
52	40
14	50
35	40
90	35
25	56
56	34
60	42

8. Following data represents lives of 2 models of refrigerators A and B.
- Find Average life of each model.
  - Which model has greater uniformity of life.



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Life (No. of years)	Model A	Model B
0-2	5	2
2-4	16	7
4-6	13	12
6-8	7	19
8-10	5	9
10-12	4	1

9. Calculate Mean and Mode from the following data.

Profits in lakhs	No. of companies
4-7	6
8-11	10
12-15	18
16-19	30
20-23	15
24-27	12
28-31	10
32-35	6
36-39	2

#### SECTION - D

Answer any ONE of the following question carries 6 marks.

(1×6=6)

10. What are the general rules for constructing diagrams.

11. Draw a pie chart for the following data.

Items	% Investment
Agriculture	15%
Irrigation	20%
Industries	30%
Transport	10%
Social service	25%

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