

1/2/25



DCBD103

Reg. No.

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I Semester B.Com./B.D.A. Degree Examination, January/February - 2025

COMMERCE

Business Statistics - I

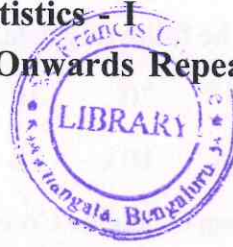
(NEP Scheme 2021-22 Onwards Repeaters)

Time : 2½ Hours

Instructions to Candidates:

Answer should be written in English only.

Maximum Marks : 60



SECTION - A

Answer any FIVE of the following questions. Each question carries Two marks.

(5×2=10)

1. a. Define Statistics.
- b. What is Tabulation?
- c. Mention any four types of Bar diagrams.
- d. State the empirical formula to determine "Mode".
- e. Calculate Range and its Co-efficient from the following data.  
 $x$ : 15, 17, 6, 5, 12, 19, 25, 30
- f. What is Correlation?
- g. Mention any two characteristics of a Good Average.

SECTION - B

Answer any FOUR of the following questions. Each question carries Five marks.

(4×5=20)

2. Construct a pie chart for the following Data.

A Rupee spent on 'Khadi' is distributed as follows.

- Farmer - 20 paise
- Spinner - 30 paise
- Weaver - 25 paise
- Dyer - 10 paise
- Agent - 15 paise

[P.T.O.]



3. Calculate Quartile Deviation and its co-efficient from the following data.

$x:$	125	126	130	132	134	138	140	145
$f:$	8	4	3	10	7	9	4	2

4. Calculate Mean from the following data.

<b>More than:</b>	10	20	30	40	50	60	70	80
<b>Frequency:</b>	115	103	88	68	43	23	13	3

5. From the following Data Calculate Co-efficient of Rank Correlation between 'x' and 'y'.

$x:$	36	56	20	65	42	33	44	50	15	60
$y:$	50	35	70	25	58	75	60	45	80	38

6. What is Sampling? Explain any Four types of Sampling methods.

### SECTION - C

Answer any **TWO** of the following questions. Each question carries **Twelve** marks.

(2×12=24)

7. Calculate Mean, Median and Mode from the following data.

Marks	Students
5 - 15	7
15 - 25	12
25 - 35	17
35 - 45	29
45 - 55	31
55 - 65	16
65 - 75	3



8. Calculate Standard Deviation and its co-efficient from the following Data and Find out who is Better Scorer and More Consistent.

Bat's man 'A'	Bat's man 'B'
101	97
22	12
0	40
36	96
82	13
45	8
7	85
13	8
65	56
14	16

9. Compute Karl Pearson's co-efficient of correlation between  $x$  and  $y$  from the following Information.

$x$ :	80	100	90	100	130	100	170	140	170
$y$ :	15	15	14	21	17	18	16	16	21

#### SECTION - D

Answer any **ONE** of the following question. The question carries **Six** marks. (1×6=6)

10. Explain the different measures of Skewness.
11. Explain the different parts of a table with format.