



6015/7015

III Semester 5 Year B.B.A.LL.B./B.Com.LL.B.
Examination, June/July 2025 (Even Sem.)
BUSINESS STATISTICS

Duration : 3 Hours

Max. Marks : 80

- Instructions :**
1. Answer all five Units.
 2. One essay type question and short note question or problems is compulsory from each Unit.
 3. Use simple calculator.

UNIT – I

- Q. No. 1. (a) Draw less than and more than Ogives for the following data and determine the median graphically.

Marks : 10

Class Interval	Frequency
10 – 20	2
20 – 30	5
30 – 40	7
40 – 50	12
50 – 60	9
60 – 70	4

OR

- Q. No. 1. (a) What is primary data ? Explain the various methods of collecting primary data.

Marks : 10

- Q. No. 1. (b) Draw a pie chart to represent the following data.

Marks : 6

Colour	Frequency
Red	100
Blue	130
Green	240
Yellow	50
Other	80

OR

- Q. No. 1. (b) Write a short note on tabulation.

Marks : 6

P.T.O.



UNIT – II

- Q. No. 2. (a) Calculate the geometric and harmonic mean from the following data.

Marks : 10

Class Interval	Frequency
100 – 200	4
200 – 300	6
300 – 400	10
400 – 500	12
500 – 600	11
600 – 700	13

OR

- Q. No. 2. (a) Write the merits and demerits of mean, median and mode.

Marks : 10

- Q. No. 2. (b) Write a short note on quartiles.

Marks : 6

OR

- Q. No. 2. (b) Calculate the median of the following distribution.

Marks : 6

x	f
10	24
15	6
8	30
20	16
18	26

UNIT – III

- Q. No. 3. (a) What is Skewness ? Explain the types and measures of Skewness.

Marks : 10

OR



- Q. No. 3. (a) You are given below the daily wages paid to the workers in two factories X and Y.

Marks : 10

Daily Wages	No. of workers	
	Factory X	Factory Y
120 – 130	15	25
130 – 140	30	40
140 – 150	44	60
150 – 160	60	35
160 – 170	30	12
170 – 180	14	15
180 – 190	7	5

Use appropriate measure and answer the following :

- (i) Which factory pays higher wages ?
(ii) Which factory has a more consistent wages structure ?

- Q. No. 3. (b) Calculate the range and it's coefficient from the following.

Marks : 6

Marks	No. of students
10 – 20	5
20 – 30	8
30 – 40	10
40 – 50	7
50 – 60	12
60 – 70	9

OR

- Q. No. 3. (b) Define dispersion. Explain the measures of dispersion.

Marks : 6

UNIT – IV

- Q. No. 4. (a) Explain correlation analysis.

Marks : 10

OR



- Q. No. 4. (a) Calculate Spearman's rank correlation co-efficient between marks in Accountancy and marks in Statistics from the data.

Marks : 10

Marks in Accountancy	Marks in Statistics
78	84
39	47
36	51
65	53
62	58
90	86
82	62
75	68
25	60
98	91

- Q. No. 4. (b) From the following data find out two regression lines for the following data.

Marks : 6

	X	Y
Mean	15.5	22
SD	3	4
$r = 0.85$		

OR

- Q. No. 4. (b) Write a short note on regression analysis.

Marks : 6

UNIT – V

- Q. No. 5. (a) Calculate index numbers from the following data.

Marks : 10

- (a) Fisher's price index number.
(b) Test whether Fisher's price index satisfy time reversal and factor reversal test.

Commodities	p_0	q_0	p_1	q_1
A	8	5	10	11
B	8.5	6	9	9
C	9	4	12	6

OR

- Q. No. 5. (a) What is index number ? Explain the uses of index number.

Marks : 10

- Q. No. 5. (b) Write a short note on time reversal test and factor reversal test.

Marks : 6

OR

- Q. No. 5. (b) Write a note on cost of living index.

Marks : 6