



6015/7015

III Semester 5 Yr. B.B.A.LL.B./B.Com.LL.B.
Examination, September/October 2023 (June 2023)
BUSINESS STATISTICS

Duration : 3 Hours

Max. Marks : 80

Instructions : 1. Answer all 5 Units.

2. One essay type and one short note question or problem from each Unit have to be attempted.

3. Use simple calculator.

UNIT – I

Q. No. 1. a) Define statistics. Explain the sources of secondary data. Marks : 10

OR

Q. No. 1. a) Define classification of data. Explain different types of classification of data. Marks : 10

Q. No. 1. b) Write short note on ogive curves. Marks : 6

OR

Q. No. 1. b) Represent the following frequency distribution by Histogram. Marks : 6

Classes	f
10 – 20	4
20 – 30	10
30 – 40	15
40 – 50	20
50 – 60	17
60 – 70	12
70 – 80	6

UNIT – II

Q. No. 2. a) What do you mean by measures of central tendency ? What are the various measures of central tendency ? Marks : 10

OR

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Q. No. 2. a) Calculate :

Marks : 10

- (i) Mean
- (ii) Median and
- (iii) Mode for the following.

Marks	No. of Students
More than 30	100
More than 35	92
More than 40	80
More than 45	62
More than 50	40
More than 55	24
More than 60	14
More than 65	06
More than 70	00

Q. No. 2. b) Explain the merits and demerits of median.

Marks : 6

OR

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

Marks : 6

UNIT – III

Q. No. 3. a) Define dispersion. Explain various measures of dispersion.

Marks : 10

OR

Q. No. 3. a) Calculate Karl Pearson's co-efficient of skewness.

Marks : 10

Classes	f
0 – 5	12
5 – 10	18
10 – 15	28
15 – 20	26
20 – 25	16



Q. No. 3. b) Write a short note on skewness.

Marks : 6

OR

Q. No. 3. b) What do you mean by quartile deviation and mention the merits of quartile deviation.

Marks : 6

UNIT - IV

Q. No. 4. a) Define regression. Explain linear and non-linear regression and lines of regression.

Marks : 10

OR

Q. No. 4. a) Calculate the co-efficient of correlation from the following data.

Marks : 10

X :	7	6	5	4	3	2	1
Y :	18	16	14	12	10	6	8

Q. No. 4. b) Obtain the rank correlation co-efficient from the following data.

Marks : 6

Marks in Stats :	70	65	71	62	58	69	78	64
Marks in Accounts :	91	76	65	83	90	64	55	48

OR

Q. No. 4. b) Write a note on correlation.

Marks : 6

UNIT - V

Q. No. 5. a) Calculate Laspeyre's Paasche's and Fisher's index for the following data and test that it satisfies FRT and TRT tests.

Marks : 10

Commodities	Base year		Current Year	
	Price	Quantity	Price	Quantity
A	12	10	20	12
B	4	20	4	24
C	8	12	12	15
D	12	15	24	2

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Q. No. 5. a) Index numbers are 'specialised averages' discuss. Mention its advantages and purposes. Marks : 10

Q. No. 5. b) Construct cost of living index number by family budget method for the year 1980 taking 1975 as base year. Marks : 6

Commodity	A	B	C	D	E
Quantity in units 1975	50	100	60	30	40
Price per unit 1975	6	2	4	10	8
Price per unit 1980	10	2	6	12	12

OR

Q. No. 5. b) Write short notes on 'Weights' in index numbers. Marks : 6