



Fourth Semester 5 Year B.B.A., LL.B. Examination, June 2011
BUSINESS STATISTICS (Course – III)

Duration : 3 Hours

Max. Marks : 100

- Instructions :** 1. Answer all the **5** Questions.
 2. **One** essay type and **one** short note question or problem from **each unit** have to be attempted.
 3. Figures to the **right** indicate marks.

UNIT – I

Q. No. 1. (a) Define Statistics. Explain the sources of secondary data. Marks : 15

OR

Define classification. Explain bases of classification.

(b) Write a short note on ogive curves. Marks : 5

OR

The following data relating to the strength of the Indian Merchant Shipping Fleet gives the (GRT) as on 31st December, for different years

Year :	1961	1966	1971	1975	1976
GRT in '000 :	901	1792	2500	4500	5250

Represent the data by suitable bar diagram.

UNIT – II

Q. No. 2. (a) Explain the properties of a good average. Which average do you think is the best and why ? Marks : 15

OR

Discuss partition values.

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- (b) Explain merits and demerits of median.

Marks

OR

Eight coins were tossed together and the number of heads (X) resulting was noted. The operation was repeated 256 times and frequency distribution of the number of heads is given below.

No. of Heads (X)	0	1	2	3	4	5	6	7	8
Frequency (f)	1	9	26	59	72	52	29	7	1

Calculate median.

UNIT – III

- Q. No. 3. (a) Define range. Explain the merits and demerits of range and uses.

Marks : 15

OR

Define dispersion. Explain various measures of dispersion.

- (b) Write a short note on 'Skewness'.

Marks : 5

OR

Calculate the mean deviation about the mean for the following data.

x:	5	15	25	35	45	55	65
f:	8	12	10	8	3	2	7

UNIT – IV

- Q. No. 4. (a) Explain Rank Correlation.

Marks : 15

OR

Define regression. Explain linear and non linear regression and lines of regression.



- (b) Calculate the co-efficient of correlation from the following data : Marks

X: 7 6 5 4 3 2 1

Y: 18 16 14 12 10 6 8

OR

Obtain the rank correlation co-efficient from the following data :

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

UNIT – V

- Q. No. 5. (a) Explain the types of index numbers.

Marks : 15

OR

Explain the cost of living index number and steps in the construction of cost of living index number.

- (b) Explain family budget enquiry.

Marks : 5

OR

Construct the cost of living index number from the table given below :

Group	Index for 1998	Expenditure
1) Food	550	46%
2) Clothing	215	10%
3) Fuel and lighting	220	7%
4) House rent	150	12%
5) Miscellaneous	275	25%