IV Semester 5 Years B.B.A.LL.B. (Hons.) Examination, December 2012
BUSINESS STATISTICS

Duration : 2½ Hours   Max. Marks : 70

Instructions : 1. Answer **all 5** questions.

2. **One** essay type and **one** short note question or problem from **each** Unit have to be attempted, which is referred as Part (**a**) and (**b**) in all the Units.

3. Figures to the right indicate marks.

UNIT – I

Q. No. 1. (a) Define the term "statistics" and discuss its functions and limitations.   Marks : 9

OR

What is classification ? Discuss the different methods of classification.

(b) Write a short note on :   Marks : 5

Secondary data.

OR

Represent the following data by histogram.

Weight (Kg)	No. of Persons
35-40	12
40-45	30
45-50	22
50-55	30
55-60	18
60-65	10

P.T.O.

UNIT – II

Q. No. 2. (a) What is an average ? Give atleast 3 merits and demerits any two averages.   Marks : 9

OR

Find Mean, Median and Mode for the following distributions.

Class interval	Frequency
20-40	6
40-60	9
60-80	11
80-100	14
100-120	20
120-140	15
140-160	10
160-180	8
180-200	7

(b) Find the values of quartiles for the following data :   Marks : 5

15.9, 12.1, 15.6, 17.2, 10.4, 11.6, 17.0, 14.5, 18.8, 19.6

OR

Write the merits and demerits of Median.

UNIT – III

Q. No. 3. (a) Following are the marks obtained by two students A and B in 10 tests of 100 marks each.   Marks : 9

Marks obtained by A : 44 80 76 48 52 72 68 56 60 54

Marks obtained by B : 48 75 54 60 63 69 72 51 57 66

OR

What you mean by "Dispersion" ? Name the various measures of dispersion.

(b) Write the merits and demerits of standard deviation.   Marks :

OR

Calculate mean deviation from the following data :

x : 10   11   12   13   14   Total

f : 3   12   18   12   3   48

UNIT – IV

Q. No. 4. (a) Calculate Karl Pearson's correlation coefficient for the
following data.   Marks : 9

x :   35   55   38   42   44   46   51   54   55   56

y :   40   32   39   40   41   37   50   52   46   55

OR

From the following data :

x :   16   12   18   4   3   10   5   12

y :   87   88   89   68   78   80   75   83

Determine the two regression equations.

(b) Write a short note on regression equations.   Marks : 5

OR

Calculate rank coefficient of correlation from the following
data.

x :   48   33   40   9   10   16   65   16

y :   13   24   13   15   6   20   6   4

UNIT – V

Q. No. 5.(a)Calculate the Fisher's ideal index number for the following data. Verify that it satisfies time reversal test and factor reversal test. Marks : 9

Commodities	Base Year		Current Year	
	Price	Quantity	Price	Quantity
A	4	20	5	24
B	5	15	3	24
C	2	30	5	25
D	1	50	2	60
E	3	25	4	30

OR

Define an index numbers. What are the types of index numbers ?

(b) Write short note on : Marks : 5

Cost of living index number.

OR

Merits and demerits of index number.

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