



0443

**Fourth Semester 5 Year B.B.A. LL.B. (Hons.) Examination, June/July 2015
BUSINESS STATISTICS**

Duration : 2½ Hours

Max. Marks : 70

- Instructions:** 1) Answer Q.No. **8** and **any five** of the remaining questions.
2) Q.No. **8** carries **20** marks and remaining questions carry **10** marks **each**.
3) Answers should be written in **English**.

Q. No. 1. Define statistics and discuss its importance with reference to business and economics. Marks : 4×10=40

Q. No. 2. Find Mean, Median and Mode for the following distribution.

Monthly Rent (in (Rs.))	No. of families Paying rent
20 – 40	6
40 – 60	9
60 – 80	11
80 – 100	14
100 – 120	20
120 – 140	15
140 – 160	10
160 – 180	08
180 – 200	07

Q. No. 3. What is dispersion ? Explain the types of dispersion measures.

Q. No. 4. From the data given below examine whether there exist any correlation between x and y.

x :	6.9	8.5	5.8	8.6	9.6	8.0	9.7
y :	2.9	3.8	6.5	2.3	5.5	3.5	3.2

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- Q. No. 5. From the data given below calculate index number by
 (i) Simple aggregate method
 (ii) Fisher's price index number.

Items	Base year		Current year	
	Price	Quantity	Price	Quantity
A	6	50	10	56
B	2	100	02	120
C	4	60	06	60
D	10	30	12	24
E	8	40	12	36

- Q. No. 6. What is primary data ? Give an example. Explain the methods of collecting primary data.

- Q. No. 7. Write a short on **any two** of the following :

Marks : $2 \times 5 = 10$

- Tabulation
- Rank correlation
- Cost of living index number.

- Q. No. 8. Answer **any two** of the following :

Marks : $2 \times 10 = 20$

- (a) Find the two regression equations from the following :

x :	16	12	18	04	3	10	5	12
y :	87	88	89	68	78	80	75	83

- (b) Find geometric mean

x :	12.5	22.5	32.5	42.5	52.5	62.5	72.5
f :	21	22	30	35	40	32	40

- (c) i) The mean of 200 items is 48 and their standard deviation is 3. Find the sum of squares of all this.

- ii) You are given the following data.

	x	y
A.M.	36	85
S.D.	11	08

- Find the two regression equations
- Estimate the values of x when $y = 75$.