



Reg. No. :

Name :

**Second Semester B.B.A. LL.B. (Five Year Integrated) Degree
Examination, October 2014
Paper – III : BUSINESS STATISTICS
(2013 Admission)**

Time : 3 Hours

Max. Marks : 80

I. Answer **any five** of the following. **Each** question carries **2** marks. Answer should **not exceed 50 words each** : **(5×2=10 Marks)**

- 1) Define statistics.
- 2) What is probability sampling ?
- 3) What is meant by editing of data ?
- 4) What is geometric mean ?
- 5) Define weighted average.
- 6) What is meant by skewness ?
- 7) What is a random variable ?
- 8) What are independent events ?

II. Answer **any four** of the following. **Each** question carries **4** marks. Answer should **not exceed 120 words each** : **(4×4=16 Marks)**

- 1) What are the various types of data ?
- 2) Write a note on questionnaire method of data collection.
- 3) What is mode ? What are its merits and demerits ?
- 4) Explain quartile deviation.
- 5) What is a probability distribution ?
- 6) What is conditional probability ?



III. Answer **any four** of the following. **Each** question carries **6** marks. **(4×6=24 Marks)**

- 1) What are the functions of statistics ?
- 2) Write a brief note on measure of kurtosis.
- 3) Explain theorems of probability.
- 4) 40 per cent of students have a mean grade of 5.25, 35 per cent of students have a mean grade of 4.21 and the remaining 25 per cent students have a mean grade of 3.10. What is the mean grade for the entire class ?

5) From the following data, calculate Mode :

Income :	10 – 20	20 – 30	30 – 40	40 – 50
No. of workers :	4	6	20	32
	50 – 60	60 – 70	70 – 80	80 – 90
	33	17	8	2

- 6) A bag contains 8 red balls and 5 white balls. Two successive draws of 3 balls are made without replacement. What is the probability that the first draw will give 3 white balls and the second draw will give 3 red balls ?

IV. Answer **any three** of the following. **Each** question carries **10** marks.

(3×10= 30 Marks)

- 1) What are the various measures of dispersion ? Explain merits and demerits of each.
- 2) What is probability ? What are the theorems of probability ?
- 3) From the following find out the value of median and quartiles :

Mid X : 25 75 125 175 225 275

No. of Persons : 14 21 26 30 25 22

- 4) Calculate Karl Pearson's co-efficient of Skewness and comment on the result :

Marks : 0 – 10 10 – 20 20 – 30 30 – 40 40 – 50 50 – 60 60 – 70

No. of students : 16 21 30 25 30 35 15