



Reg. No. : .....

Name : .....

**Second Semester B.B.A. LL.B. (Five Year Integrated) Degree  
Examination, October 2015  
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) State the meaning of sampling method.

2) Define purposive sampling.

3) What is inclusive series ?

4) What is a frequency curve ?

5) State the formula for computing geometric mean.

6) Define skewness.

7) State any two characteristics of a good measure of dispersion.

8) Define probability.

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

9) What is a statistical unit ? What are its types ?

10) What is Poisson distribution ? List its properties.

11) State the important sources of secondary data ?

12) What are the important limitations of statistics ?





13) Define range. What are its demerits ?

14) One card is randomly drawn from a standard pack of 52. What is the chance that it is either a king or a queen ?

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

15) Explain the main parts of a table.

16) What are the properties of normal distribution ?

17) Calculate the modal value.

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
Frequency	278	520	464	398	324	178	44

18) Calculate standard deviation from the following :

Age in years	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
No. of persons	2	4	8	10	12	4

19) A box contains 25 balls numbered from 1 to 25. One ball is drawn at random. What is the probability that the number of the drawn ball will be a multiple of 3 or 5 ?

20) Calculate the coefficient of skewness from the following data.

Size of item	6	7	8	9	10	11	12
Frequency	3	6	9	13	8	5	4





IV. Answer **any three** of the following. **Each** question carries **10** marks. **(3×10=30 Marks)**

- 21) Explain the meaning of sampling method. What are its advantages and disadvantages ?
- 22) What are the essentials of a good diagram ? Explain the different types of diagrams.
- 23) Calculate coefficient of quartile deviation and Bowley's coefficient of skewness from the following data :

<b>Profit (Rs. lakhs)</b>	Below 10	10 – 20	20 – 30	30 – 40	40 – 50	Above 50
<b>No. of companies</b>	5	12	20	16	5	2

- 24) During the 10 weeks of a session the marks scored by two candidates. Roshan and Rosi, taking the computer programme course are given below

<b>Roshan</b>	58	59	60	54	65	66	52	75	69	62
<b>Rosi</b>	87	89	78	71	73	84	65	66	56	46

- a) Who is the better scorer : Roshan or Rosi ?
  - b) Who is more consistent ?
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