

Reg. No. : .....

Name : .....

Second Semester B.B.A. LL.B. (Five Year Integrated) Degree Examination,  
February 2022

**Paper III : BUSINESS STATISTICS**

**(2013 Admission Onwards)**

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.

1. Explain the meaning of statistics.
2. What is random sampling?
3. What is meant by tabulation of data?
4. What is geometric mean?
5. Define probability.
6. What is meant by kurtosis?
7. What is a random variable?
8. What are independent events?

**(5 × 2 = 10 Marks)**

II. Answer **any four** of the following. Each question carries **4** marks. Answer should not exceed **120** words each.

1. What are the types of sampling?
2. Explain questionnaire method of data collection.

3. What is Quartile? How it is calculated?
4. Explain mean deviation.
5. What is a binomial distribution?
6. What is Baye's theorem of probability?

**(4 × 4 = 16 Marks)**

III. Answer **any four** of the following. Each question carries **6** marks.

1. Explain scope of statistics.
2. Write a brief note on measure of skewness.
3. Explain various theorems of probability.
4. If the sample size of 22 items has a mean of 15 and another sample size of 18 items has a mean of 20, find the mean of the combined group?
5. From the following data, calculate mode:
 

Income :	20-25	25-30	30-35	35-40	40-45	45-50	50-55
No. of workers :	7	48	49	46	25	20	18
6. A bag contains 7 white balls and 9 black balls. Three balls are drawn together. What is the probability that (a) all are black (b) all are white (c) 1 white and 2 black (d) 2 white and 1 black?

**(4 × 6 = 24 Marks)**

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

1. Explain various measures of dispersion along with merits and demerits of each.
2. What is sampling? What are the methods of sampling?

3. From the following locate median and quartiles:

Income (More than):	0	1000	2000	3000	4000	5000
No. of persons:	105	92	74	50	27	11

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

Marks :	0-9	10-19	20-29	30-39	40-49	50-59	60-59
No. of students:	18	25	27	30	29	27	25

**(3 × 10 = 30 Marks)**

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