

Reg. No. :

Name :

Second Semester B.B.A. LL.B. (Five Year Integrated) Degree Examination,
February 2024

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. What do you mean by dispersion?
2. What is weighted arithmetic mean?
3. Define standard deviation.
4. What is skewness?
5. What is meant by organisation of data?
6. What is Permutation?
7. What is simple random sampling?
8. What is meant by sampling error?

(5 × 2 = 10 Marks)

P.T.O.

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

1. Describe the stages in a statistical investigation.
2. List the steps involved in the preparation of grouping table.
3. Define Range. What are its merits and demerits?
4. Explain any two non-probability sampling methods.
5. Write a note on the distrust of statistics.
6. List the objectives and methods of dispersion.

(4 × 4 = 16 Marks)

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

1. Write a note on Normal Distribution.
2. What is sampling? Bring out the merits and demerits of sampling.
3. Discuss why standard deviation is the most popular measure of dispersion.
4. Estimate mode from the following data.

Daily wage :	0-45	45-49	50-54	55-59	60-64	65-69
No. of workers :	3	7	10	8	6	4

5. Three persons X, Y and Z are simultaneously shooting a target. Probability of X hitting target is $\frac{1}{4}$, that of Y is $\frac{1}{2}$ and that of Z is $\frac{2}{3}$. Find the probability that
 - (a) exactly one of them will hit the target and
 - (b) at least one of them will hit the target.
6. A man travelled by car for 3 days. On the first day he drove for 10 hours at 48 kms an hour. On the second day he drove for 12 hours at 40 km an hour and on the last day he drove for 15 hours at 32 kmh an hour. What is his average speed?

(4 × 6 = 24 Marks)

IV. Answer any **three** questions which carry **10** marks each.

1. Discuss the significance of Statistics.
2. What are the various types of graphs of frequency distribution?
3. From the following table estimate Pearson's coefficient of skewness

Class :	4-8	8-12	12-16	16-20	20-24	24-28
Frequency :	3	7	10	6	3	1

4. Calculate the coefficient of quartile deviation from the following data.

Wages :	32-34	35-37	38-40	41-43	44-46
No. of workers :	14	62	99	18	7

(3 × 10 = 30 Marks)