

Reg. No. :

Name :

**Second Semester B.B.A., LL.B. (Five Year Integrated) Degree Examination,
February 2026**

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 each. Answer should not exceed **50** words each.

1. What is meant by 'Data'?
2. Define 'Statistics'
3. What is random experiment?
4. What is kurtosis?
5. What do you mean by Harmonic Mean?
6. What are mutually exclusive events?
7. State any two properties of binomial distribution.
8. What is sampling?

(5 × 2 = 10 Marks)

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

9. What are the essentials of an Ideal Average.
10. List the characteristics and limitations of Statistics.
11. Mention the advantages of diagrammatic presentation of data.
12. Bring out any four differences between probability and non-probability methods of sampling.
13. How is statistics related to business?
14. Write a note on non sampling errors.

(4 × 4 = 16 Marks)

P.T.O.

III. Answer any **four** questions. Each question carries **6** marks.

15. What do you mean by Collection of Data? Differentiate between Primary and Secondary Data.

16. Discuss the functions and importance of Statistics.

17. The following the distribution of persons according to different income groups

Income (in '000s)	0-8	8-16	16-24	24-32	32-40	40-48
No. of persons	8	7	16	24	15	7

Find the average income of the persons.

18. A survey on the heights (in cm) of 50 girls of a class was conducted at a school and the data obtained is given in the form of:

Height (in cm)	120-130	130-140	140-150	150-160	160-170	Total
Number of girls	4	7	12	20	8	50

Find the mode of the above data.

19. A bag contains 5 black and 7 white balls. A ball is drawn out of it and replaced in the bag. Then a ball is drawn again. What is the probability that (a) both were white and (b) the first ball was white and the second ball was black?

20. Explain Baye's theorem with a suitable example.

(4 × 6 = 24 Marks)

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

21. What is Skewness? How is the skewness of a curve measured?

22. What is Diagrammatic Representation? What are the different types of diagram.

23. Calculate Karl Pearson's coefficient of skewness from the data given below;

Value:	10	20	30	40	50	60	70
Frequency:	1	5	12	22	17	9	4

24. Estimate Quartile deviation and its coefficient from the following data.

Class:	13-17	18-22	23-27	28-32	33-37	38-42
Frequency:	4	12	21	22	17	4

(3 × 10 = 30 Marks)