

Reg. No. : .....

Name : .....

**Second Semester B.B.A. LL.B. (Five Year Integrated) Degree Examination,  
April 2019**

**Paper – III : BUSINESS STATISTICS**

Time : 3 Hours

Max. Marks : 80

Answer **any five** of the following. Each question carries 2 marks. Answer should not exceed 50 words each :

1. Define random experiment.
2. What is the best measure of central tendency?
3. Define Geometric mean.
4. Define statistic as data.
5. What is histogram?
6. Define classification.
7. Define index numbers. Mention their features.
8. Define quartile deviation.

**(5 × 2 = 10 Marks)**

P.T.O.

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

9. Explain the characteristics of sampling.
10. Distinguish between mean deviation and standard deviation.
11. Explain the essentials of a good questionnaire.
12. Distinguish between skewness and kurtosis.
13. What are the properties of normal distribution?
14. Give the essential properties of a good average.

**(4 × 4 = 16 Marks)**

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

15. Enumerate the different methods of classification of data.
16. Compute median :

Class :	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Marks :	8	12	20	23	18	7	2

17. Find the missing frequencies from the following data :

Class :	0-5	5-10	10-15	15-20	20-25	25-30	30-35
Marks :	10	12	16	-	14	10	8

Give the mean mark is 16.82.

18. Explain the different types of events in probability.
19. Explain the limitations of statistics.

20. Draw a frequency polygon to the following frequency distribution :

Class :	10-20	20-30	30-40	40-50	50-60	60-70
Marks :	5	8	15	20	12	7

(4 × 6 = 24 Marks)

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

21. State the relative frequency theory of probability and its properties. Also state the addition and multiplication rule of probability.
22. State the different methods of collecting data. Compare and contrast.
23. Calculate mean deviation about median for the following data. Also find coefficient of mean deviation :

X	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
F	18	16	15	12	10	5	2	2

24. There are 4 men and 3 women. Find the probability of selecting 3 of which (a) exactly two are women (b) no woman (c) at least one woman (d) at least two women and at the most 2 women.

(3 × 10 = 30 Marks)