

Reg. No. :

Name :

**Second Semester BBA LL.B. (Five Year Integrated) Degree Examination,
January 2020**

Paper III : BUSINESS STATISTICS

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. Define 'Statistics'.
2. What is meant by 'Data'?
3. What do you mean by Statistical Error?
4. What are Class Limits?
5. What is Median?
6. What is Range?
7. What are Mutually exclusive events?
8. What is Geometric mean?

(5 × 2 = 10 Marks)

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

9. What are the important functions of Statistics?
10. What are the various types of Diagrams?
11. What is a Discrete and a Continuous Probability Distribution.
12. List out the properties (features) of binomial distribution.
13. Distinguish between primary and secondary data.
14. Distinguish between 'skewness' and kurtosis.

(4 × 4 = 16 Marks)

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

15. What is simple random sampling? What are its objectives?
16. Compare among dispersion, skewness and kurtosis.
17. Explain Conditional Probability.
18. The following data give the savings bank accounts balances of nine sample households selected in a survey. The figures are in rupees.

745 2,000 1,500 68,000 461 549 3750 1800 4795

Find the mean and the median for these data.

19. It takes ship A 10 days to cross the Pacific Ocean; ship B takes 15 days and ship C takes 20 days (i) What is the average number of days taken by a ship to cross the Pacific Ocean? (ii) What is the average number of days taken by a cargo to cross the Pacific Ocean when the ships are hired for 60 days?
20. A market analyst believes that the stock market has a 0.70 probability of going up in the next year if the economy should do well, and a 0.20 probability of going up if the economy should not do well during the year. The analyst believes that there is a 0.80 probability that the economy will do well in the coming year.

What is the probability that stock market will go up next year?

(4 × 6 = 24 Marks)

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

21. What is a questionnaire? Explain the merits of a good questionnaire.

22. Explain the properties and uses of Normal Distribution.

23. Differentiate between Dispersion and Skewness.

24. Calculate standard deviation from the following data

Class	:	0-25	25-50	50-75	75-100	100-125	125-150
Frequency	:	13	12	19	11	13	17

(3 × 10 = 30 Marks)