B.Sc. DEGREE EXAMINATION, APRIL 2018.

II YEAR III SEMESTER

Allied - Paper III - STATISTICAL METHODS AND ITS APPLICATION - I

Time : 3 Hours Max. Marks : 60

SECTION A – (10 × 1 = 10 marks)

(Q. No. 1-12)Answer any *TEN* questions

1. What is the need of Diagrams?

2. What are the uses of classification of statistical data?

3. State the demerits of mode.

4. Define Median.

5. Define Dispersion.

6. What is the need of studying coefficient of variation?

7. Define Probability.

8. Define Conditional Probability.

9. Define Random Variable.

10. Define Moment generating Function.

11. Define Mathematical Expectation.

12. Define mutually exclusive events.

SECTION B – (5 × 4 = 20 marks)

(Q. No. 13-19)Answer any *FIVE* questions

13. State the Limitations of Statistics.

14. Explain the concept of Measures of central tendencies.

15. Describe the concept of Kurtosis.

16. State and prove the Multiplication Theorem of Probability.

17. Derive the Variance of Poisson Distribution.

18. Discuss the need of studying dispersion.

19. Mention the properties of Normal Distribution.

SECTION C – (3 × 10 = 30 marks)

(Q. No. 20-24)Answer any *THREE* questions

20. Explain about the different types of diagrammatic representation of statistical data.

21. Explain about the characteristics of a good Average.

22. Discuss the concepts of Skewness and its types.

23. State and prove Baye’s Theorem.

24. Derive the Mean and Variance of Binomial Distribution.