**Code No. MB104C**

**METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY**

**(An Autonomous Institution)**

**M.B.A I-Semester (Supplementary) Examination, September-2023**

**Subject: Statistics for Management**

**Time: 3 hours Max.Marks:60**

**Note: Missing data, if any, maybe suitably assumed.**

**PART-A**

**Answer All the questions. (05X2M=10M)**

1. a. What are functions of statistics? 2

b. Explain Theorems of Probability 2

c. List the probability sampling methods 2

d. Discuss the applications of t-distribution 2

e. Explain the properties of co-efficient of correlation. 2

**PART-B**

**Answer Any Five questions**. **(5X10M=50M)**

1. Define probability . Elaborate concepts of probability. 10
2. What is Poisson Distribution ? Explain role of Poisson Distribution. 10
3. Define Hypothesis Testing. Elaborate on procedure of Testing Hypothesis. 10
4. Explain about Analysis of Variance. Briefly discuss technique ANOVA. 10
5. Distinguish between Correlation and Regression 10
6. i) Explain Additional and Multiplication theorems of probability 10

ii) Explain properties of Normal Distribution

1. i) List the properties of Good estimator 10

ii) Discuss the assumptions in Analysis of Variance

1. i) Explain Bayes’ theorem 10

 ii) write about Central Limit theorem