**Code No.MB104C**

**METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY (An Autonomous Institution)**

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

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| **Q.No** | **Questions** | **Marks** |  |  |
| **1 a** | **What is Probability?** | **2** |  |  |
| **b** | **What are the properties of Binomial Distribution?.** | **2** |  |  |
| **c** | **What do you mean by Hypothesis Testing?** | **2** |  |  |
| **d** | **Write about t-Distribution?** | **2** |  |  |
| **e** | **What is Regression?** | **2** |  |  |
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**PART-B**

**Answer Any Five questions**.

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| **Q.No.** |  | **Questions** | **Marks** |  |  |
| **2** | **a** | **What is Baye’s Theorem ? Write its applications** | **10** |  |  |
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| **3** | **a** | **Define Normal Distribution. Explain the properties and applications of Normal Distribution.** | **10** |  |  |
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| **4** | **a** | **Explain the procedure of testing the hypothesis.** | **10** |  |  |
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| **5** | **a** | **What is Chi Square Distribution? Explain the Chi square as a test of independence.** | **10** |  |  |
|  |  |  |  |  |
| **6** | **a** | **What is Correlation? Write the differences between Regression and Correlation.** | **10** |  |  |
|  |  |  |  |  |
| **7** | **a** | **Explain about Multiplication Theorem of Probability.** | **10** |  |  |
| **b** | **Discuss in Brief about Poisson Distribution and its properties** |  |  |  |
| **8** | **a** | **Explain in brief about Probability sampling methods** | **10** |  |  |
| **b** | **Write about Non Parametric tests** |  |  |  |
| **9** | **a** | **What is hypothesis? Explain characteristics of good hypothesis and**  **different types of hypotheses.**  **What is hypothesis? Explain characteristics of good hypothesis and**  **different types of hypotheses.**  **What is hypothesis? Explain characteristics of good hypothesis and**  **different types of hypotheses.**  **Explain about the methods of calculating Pearsons Correlation** | **10** |  |  |
| **b** | **Write about the properties of a Good Estimator** |  |  |  |

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