**Course: IV-B.TECH,I-SEM,MID-II BRANCH: IT**

**Subject: DATA ANALYTICS Duration: 1.30 min**

**Date: 11-11-24 max marks: 25**

**PART-A**

**I answer all the below questions each question carry two marks. 5\*2=10**

**BTL CO**

1. Demonstrate ordinary least square estimation? 1 3
2. Explain tree building in classification? 1 4
3. Explain about tree pruning in decision trees? 1 4
4. Explain the visualizing the complex data and relation 1 5
5. What is Chernoff Faces technique? 1 5

PART-B

**II. Answer any three questions from the following 5\*3=15**

**BTL CO**

1. Where can be Logistic Regression concepts applied? 2 3

**(or)**

1. Describe least square estimator and Define Precision and Recall ? 1 3
2. What is time series method and explain ARIMA model 2 4

**(or)**

1. What is ETL? List the commercially available ETL tools? 1 4
2. What is scatter plot, pie chart and stacked bar charts, Line chart and area chart,

Tree maps with diagrams 2 5

**(or)**

1. Explain in detail about pixel oriented visualisation technique ? 1 5

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | Demonstrate ordinary least square estimation | **2** | **2** |
| **2** | Explain tree building in classification | **2** | **2** |
| **3** | Explain about tree pruning in decision trees | **2** | **2** |
| **4** | Explain the visualizing the complex data and relation | **2** | **2** |
| **5** | What is Chernoff Faces technique | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | Where can be Logistic Regression concepts applied | **5** | **5** |
| **7** | Describe least square estimator and  Define Precision  and  Recall | **1**  **2**  **2** | **5** |
| **8** | What is time series method and explain ARIMA model. | **5** | **5** |
| **9** | What is ETL?  List the commercially available ETL tools | **2**  **3** | **5** |
| **10** | What is scatter plot,  pie chart and stacked bar charts,  Line chart and area chart, Tree maps with diagrams | **1**  **2**  **2** | **5** |
| **11** | Explain in detail about pixel oriented visualisation technique | **5** | **5** |