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**IV.B.TECH- I-SEM (R20)-II MID EXAMINATIONS-NOVEMBER-2023 Date: 06.11.2023.**

**Subject: Data Analytics Time: 10:00 TO 11:30 AM**

**Branch: IT Marks: 25 M**

***Answer All Questions In Part-A& Part-B***

**PART-A 5\*2=10**

**BTL CO**

1. Demonstrate ordinary least square estimation? 1 3
2. Define supervised learning and information gain 2 4
3. What is ETL? List the commercially available ETL tools 1 4
4. Name some Software to make Decision Tree.? 4 5
5. Explain the pixel oriented visualisation technique? 1 5

**PART-B** **5\*3=15**

**BTL CO**

1. Describe least square estimator and Define Precision and Recall 1 3

(OR)

7. Discuss the best unbiased linear estimator property of regression? 2 3

8. Explain about tree pruning in decision trees? 1 4

(OR)

9. What is time series method and explain ARIMA model 2 4

10. Explain in detail about icon based visualization technique 2 5

(OR)

11. What is word cloud? Explain the visualizing the complex data and relation 1 5

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | Demonstrate ordinary least square estimation? | **2** | **2** |
| **2** | Define supervised learning and information gain | **2** | **2** |
| **3** | What is ETL? List the commercially available ETL tools | **2** | **2** |
| **4** | Name some Software to make Decision Tree.? | **2** | **2** |
| **5** | Explain the pixel oriented visualisation technique? | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | Describe least square estimator and Define Precision and Recall  (OR) | **5** | **5** |
| **7** | Discuss the best unbiased linear estimator property of regression? | **5** |  |
| **8** | Explain about tree pruning in decision trees?  (OR) | **5** | **5** |
| **9** | What is time series method and explain ARIMA model | **5** |  |
| **10** | Explain in detail about icon based visualization technique  (OR) | **5** | **5** |
| **11** | What is word cloud? Explain the visualizing the complex data and relation | **5** |  |