

Total No. of Questions: 6

Seat No.:

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-V INFORMATION TECHNOLOGY : WINTER: 2025
SUBJECT: DATA WARE HOUSING & DATA MINING

Day : Friday
Date : 12/12/2025

W-30779-2025

Time : 02:30 PM-05:30 PM
Max. Marks : 60

NB :

1. Draw neat and labelled diagrams WHEREVER necessary.
2. Figures to the right indicate FULL marks.
3. All questions are COMPULSORY.

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| Q. 1 | Explain the architecture of a Data Warehouse and describe its major components. | CO1 BT2 (10) |
| OR | | |
| Q. 1 | Analyze the differences between operational databases and data warehouses with examples. | CO2 BT4 (10) |
| Q. 2 | Describe the types of data mining systems and explain how they are classified. | CO3 BT1 (10) |
| OR | | |
| Q. 2 | Explain the importance of data preprocessing and discuss different data cleaning techniques | CO2 BT2 (10) |
| Q. 3 | Describe constraint-based pattern mining and its application in multidimensional data. | CO3 BT1 (10) |
| OR | | |
| Q. 3 | Explain frequent itemset mining and discuss the basic concepts involved in association rule generation | CO3 BT2 (10) |
| Q. 4 | Explain the Decision Tree induction method and its role in classification. | CO4 BT2 (10) |
| OR | | |
| Q. 4 | Analyze how Naive Bayes classification works and list its advantages and limitations. | CO4 BT4 (10) |
| Q. 5 | Explain the working of Partitioning Methods in clustering with suitable examples | CO5 BT2 (10) |
| OR | | |
| Q. 5 | Describe statistical approaches to outlier detection and discuss when they are appropriate | CO5 BT1 (10) |
| Q. 6 | Explain how WEKA can be used for data preprocessing and visualization. | CO6 BT2 (10) |
| OR | | |
| Q. 6 | Discuss predictive modeling in Orange and explain how model evaluation is performed | CO6 BT2 (10) |
