



R22 Regulation

Subject code: 4E5EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, May 2025

DATA WAREHOUSING AND DATA MINING

(CSE)

Maximum Marks: 60

Date: 24.06.2025

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

| All the following questions carry equal marks (10X1M=10 Marks) | | Marks | CO | Bloom Tx |
|--|--|-------|----|----------|
| 1.a) | Define Data Warehouse. | 1M | 1 | BTL1 |
| b) | List out the Dimension Table Characteristics. | 1M | 1 | BTL1 |
| c) | What is Data Preprocessing? | 1M | 2 | BTL1 |
| d) | Outline the Data Transformation. | 1M | 2 | BTL2 |
| e) | Show the Partition Algorithms. | 1M | 3 | BTL2 |
| f) | Interpret the Representation of Frequent item set. | 1M | 3 | BTL2 |
| g) | Make use of Classification Techniques. | 1M | 4 | BTL3 |
| h) | List the KNN algorithm Characteristics. | 1M | 4 | BTL4 |
| i) | Identify the Hierarchical clustering issues. | 1M | 5 | BTL3 |
| j) | Analyze the Outlier Detection. | 1M | 5 | BTL4 |

Part-B

| Answer All the following questions. (5X10M=50Marks) | | Marks | CO | Bloom Tx |
|---|---|-------|----|----------|
| 2 | a) Model the Data warehouse Architecture and list their Components. | 5M | 1 | BTL3 |
| | b) Define additive and explain about types of Addictive measures. | 5M | 1 | BTL1 |
| OR | | | | |
| 3 | a) Compare and contrast the operational database with data warehouse. | 5M | 1 | BTL2 |
| | b) Explain clearly about the Data warehouse operations. | 5M | 1 | BTL2 |
| 4 | a) What is Data Mining? And extend the data mining tasks. | 5M | 2 | BTL1 |
| | b) Compare and contrast the Discretization and Binarization. | 5M | 2 | BTL4 |
| OR | | | | |
| 5 | a) Develop the Data mining Architecture and explain their components. | 5M | 2 | BTL3 |
| | b) Classify the steps involved in Data preprocessing. | 5M | 2 | BTL4 |
| 6 | a) What is support and confidence measures in data mining? | 5M | 3 | BTL1 |
| | b) Conclude FP-Growth algorithms with proper example. | 5M | 3 | BTL5 |
| OR | | | | |
| 7 | a) Assess the APRIORI algorithms with proper example | 5M | 3 | BTL5 |

| | | | | |
|----|--|----|---|------|
| | b) Compare Maximum frequent item set with closed frequent item set. | 5M | 3 | BTL5 |
| 8 | a) Construct the Decision-tree algorithm with proper example. | 5M | 4 | BTL3 |
| | b) Identify the measures for selecting the best Split. | 5M | 4 | BTL3 |
| | OR | | | |
| 9 | a) Demonstrate clearly about Evolution classifiers. | 5M | 4 | BTL2 |
| | b) Label the Navie-Bayes algorithm with proper example. | 5M | 4 | BTL1 |
| 10 | a) Illustrate clearly about partition clustering K-means algorithm. | 5M | 5 | BTL2 |
| | b) Categorize the any 5 types of clustering. | 5M | 5 | BTL4 |
| | OR | | | |
| 11 | a) Recall the Specific techniques in Hierarchical clustering algorithm. | 5M | 5 | BTL1 |
| | b) Extend the clustering is used in different fields for various purposes. | 5M | 5 | BTL2 |