



TKRCET
 1984-2024
 Indian in Character International in Experience

B.Tech VI Semester Supplementary Examinations, February 2024
DATA WAREHOUSING AND DATA MINING
(Computer Science and Engineering)

Maximum Marks: 70

Date: 24.02.2024

Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 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 (10x2M=20 Marks)		Bloom's Tx	CO
1	Define Data Warehousing	L1	CO1
2	List out the operations of OLAP	L1	CO1
3	What is Data Mining?	L1	CO2
4	Define Discretization?	L1	CO2
5	Define support and Confidence measure.	L1	CO3
6	Give a note on closed frequent Itemset	L2	CO3
7	What is classification?	L1	CO4
8	Define information Gain.	L1	CO4
9	Discuss on Agglomerative and Divisive Clustering techniques.	L2	CO5
10	List the various types of clustering methods.	L1	CO5

Part-B

Answer All the following questions. (10M X 5=50Marks)			
11	What is the Significance of OLAP in Data warehouse.? List OLAP operations with neat diagram/example. [10]	L4	CO1
	OR		
12	Explain with suitable diagrams Star, Snow-Flake and Fact constellation Schema. [10]	L5	CO1
13	Explain different Data Mining tasks for knowledge discovery. [10]	L5	CO2
	OR		
14	Explain the various data preprocessing techniques.? How data reduction helps in data processing. [10]	L5	CO2
15	a) Write and explain Apriori Algorithm. [5] b) Explain how association rules are generated from frequent itemsets. (5M)	L5	CO3
	OR		

16	Apply Apriori algorithm on frequent item sets from the given data Take minimum support count = 3. [10]	L3	CO3												
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17	Discuss K- nearest neighbor classification algorithm and Characteristics. [10]	L6	CO4												
	OR														
18	Explain decision tree induction algorithm for classifying data tuples and discuss suitable example. [10]	L5	CO4												
19	What are the different Clustering methods? Explain in detail. [10]	L5	CO5												
	OR														
20	a) Write K-means Clustering algorithm. [5] b) Write the Key issue in hierarchical clustering algorithm. [5]	L2	CO5												