



R22 Regulation

Subject code: 4E5EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Regular Examinations, December 2024

Data Warehousing and Data Mining

(CSE)

Maximum Marks: 60

Date: 03.01.2025

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		CO	Bloom Tx
All the following questions carry equal marks (10X1M=10 Marks)			
1.a)	Define Data Modelling.	1	BTL1
b)	List out the Data Warehouse Characteristics.	1	BTL1
c)	What is Data Mining?	2	BTL1
d)	Write about the Missing Data?	2	BTL1
e)	Explain the Frequent item set generation.	3	BTL1
f)	Write the APRIORI Principle.	3	BTL1
g)	Make use of Navie- Bayes Classifier.	4	BTL1
h)	List the Bayesian Belief Network algorithm Characteristics.	4	BTL1
i)	Identify the K-Means Additional issues.	5	BTL1
j)	What is Agglomerative Hierarchical Clustering Algorithm.	5	BTL1
Part-B			
Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
2	a) Define schema design and explain about any of their 3 types. [5M]	1	BTL1
	b) Model the OLAP server Architecture and explain their Components. [5M]	1	BTL3
OR			
3	a) Compare and contrast the ROLAP, MOLAP and HOLAP Architecture. [7M]	1	BTL2
	b) Explain clearly about the dimension table characteristics. [3M]		
4	a) Define about KDD and list the challenges. [5M]	2	BTL1
	b) Analyze the Data transformation techniques. [5M]	2	BTL4
OR			
5	a) Analyze clearly about Data mining Functionalities. [5M]	2	BTL4
	b) Build the Dimensionality Reduction techniques. [5M]	2	BTL3
6	a) How to generate associate rules from frequent itemset? [5M]	3	BTL1
	b) Conclude Partition algorithms with proper example. [5M]	3	BTL5
OR			
7	a) Analyze the Apriori algorithm with suitable example. [8M]	3	BTL4
	b) Define frequent itemset. [2M]	3	BTL1

8	a) Estimate the general approaches to solving a classification problem. [5M]	4	BTL5
	b) Label the KNN classification algorithm and list the characteristics. [5M]	4	BTL1
	OR		
9	a) Demonstrate clearly about classification techniques. [5M]	4	BTL2
	b) Identify the methods for Expressing attribute test conditions. [5M]	4	BTL3
10	a) Define clustering and omit the Evolution of Clustering algorithm. [5M]	5	BTL1
	b) Distinguish agglomerative methods and divisive methods. [5M]	5	BTL4
	OR		
11	a) Illustrate about the PAM algorithm. [5M]	5	BTL2
	b) List and explain the strengths, weakness, and issues in Hierarchical clustering. [5M]	5	BTL2