R18 Regulation *Subject code: 2P5FC*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, July 2024

DATA WAREHOUSING AND DATA MINING

(IT)

Maximum Marks: 70 Date:24.07.2024 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 which carries 10M.
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)		CO	Bloom Tx
1	List the characteristics of a data ware house.	1	L1
2	Define OLAP.	1	L1
3	Define data mart.	2	L1
4	Define Data mining.	2	L1
5	what is data transformation?	3	L1
6	What is data warehouse metadata?	3	L1
7	Define frequent set and border set.	4	L1
8	What is classification?	4	L1
9	Explain the differences between star and snowflake schema.	5	L1
10	What are outliers?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)			
11	Define data warehouse and Differentiate between operational database systems and data warehouses? [10]	1	L2
	OR		
12	Draw the architecture of data warehouse and explain the three tier in detail. [10]	1	L2
13	Describe the Architecture of a typical data mining system/Major Components. [10]	2	L2
	OR		
14	Consider the Data set D. Given the minimum support2, apply Apriori algorithm on this dataset. [10]	2	L2

Transaction ID	Items
100	A,C,D
200	B,C,E
300	A,B,C,E
400	B,E

15	Briefly explain about the multidimensional data cube and it's operations. [10]	3	L2
	OR		
16	What is classification and prediction? Explain with an example. [10]	3	L2
17	Explain the algorithm for constructing a decision tree from training samples	4	L2
	OR		
18	Explain Outlier analysis with example. [10]	4	L2
19	Explain Hierarchical method clustering of classification with example. [10]	5	L2
	OR		
20	Explain Density-Based Clustering Methods of classification with example. [10]	5	L2