R20 Regulation *Subject code: 3P7FA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, May 2026

DATA WAREHOUSING AND DATA MINING

(IT)

Maximum Marks: 70 Date: 05.05.2026 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)		Marks	CO	BTL
1	Define data warehouse.	2M	1	L1
2	List the Data warehouse Characteristics.	2M	1	L1
3	Define data cleaning.	2M	2	L1
4	What is a data cube?	2M	2	L1
5	What is Frequent Item Set?	2M	3	L1
6	Define Roll-up and drill-down operations.	2M	3	L1
7	What is classification?	2M	4	L1
8	What is decision tree?	2M	4	L1
9	Give a note on k means algorithm.	2M	5	L1
10	Define cluster analysis.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain the three tier architecture of data ware housing.	10M	1	L2
	OR			
12	Construct Schemas for multi-dimensional tables.	10M	1	L2
13	a) Illustrate various data mining functionalities. b) Discuss briefly about data cleaning techniques.	5M 5M	2	L2
	OR			
14	Illustrate the differences between OLTP and OLAP.	10M	2	L2
15	Consider the Data set D. Given the minimum support. Apply Apriori algorithm on this dataset and find Closed frequent item set.	10M	3	L2

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

OR

16	Build the data classification process with a neat diagram and how does the Naive Bayesian classification works?	10M	3	L2
17	What is prediction? Demonstrate the various prediction techniques and Explain about Decision tree Induction classification technique.	10M	4	L2
	OR			
18	Illustrate the partitioning methods.	10M	4	L2
19	Explain the Agglomerative hierarchical clustering algorithms.	10M	5	L2
	OR			
20	Experiment Outlier analysis with example.	10M	5	L2