



R20 Regulation

Subject code: 3P7FA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

DATA WAREHOUSING AND DATA MINING (IT)

Maximum Marks: 70

Date: 24.11.2025

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	What is a fact table?	2M	1	L1
2	What is a data mart?	2M	1	L1
3	Define OLTP?	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	Define frequent set and border set?	2M	4	L1
8	What is classification?	2M	4	L1
9	What is an outlier?	2M	5	L1
10	Define cluster Analysis?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Demonstrate data mining as a step process of knowledge discovery and Mention the Functionalities of Data mining?	10M	1	L2
OR				
12	Differentiate Operational database systems and data warehousing and explain the star schema and fact constellation schemas?	10M	1	L2
13	Illustrate the Architecture of a typical data mining system and Major Components?	10M	2	L2
OR				
14	Illustrate the differences between OLTP and OLAP?	10M	2	L2
15	Basic Agglomerative Hierarchical Clustering Algorithm with an example?	10M	3	L2
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	Differentiate between AGNES and DIANA algorithms?	10M	4	L2
19	Demonstrate about DBSCAN Algorithm?	10M	5	L2
	OR			
20	Demonstrate Density-Based Clustering Methods of classification with example?	10M	5	L2