R20 Regulation *Subject code:3E6HA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, May 2025

ADVANCED DATABASES

(CSE(DS))

Maximum Marks: 70 Date: 20.06.2025 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	List out types of Database System Architectures.	2M	1	L1
2	What are Page Shipping and Item Shipping?	2M	1	L1
3	What is Path Expression?	2M	2	L1
4	Define X Path.	2M	2	L1
5	What is Keyword Search in Information Retrieval?	2M	3	L1
6	What is Relevance?	2M	3	L1
7	Define Real-Time Transactions.	2M	4	L1
8	What is Transaction Processing.	2M	4	L1
9	What is Encryption?	2M	5	L1
10	What are privacy issues in Statistical Database Security?	2M	5	L1
	Part-B			
Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain briefly about the following with examples. a) Parallel Sort b) Range Partitioning Sort c) Parallel External Sort Merge d) Fragment and Replication Join	10M	1	L2
	OR			
12	a) Discuss about Server system Architecture. b) Discuss about Data Servers in Server System Architecture.	5M 5M	1	L2
13	Explain Complex data types in Object Based Databases with example.	10M	2	L2
	OR			
14	Explain Document Type Definition in XML Databases with example.	10M	2	L2
15	a) Explain measuring retrieval Effectiveness in Information Retrieval. b) Explain Ontologies with examples.	5M 5M	3	L2
	OR			
16	Discuss Directories and Categories with neat diagram.	10M	3	L2
17	Explain TP-Monitor Architecture with neat diagram.	10M	4	L2
	OR			
18	Discuss Transactional Workflows in Advance Transaction processing.	10M	4	L2
19	a) Discuss Database Security Issues. b) Explain SQL Injection and its Methods.	5M 5M	5	L2
	OR			
20	Explain Discretionary access control based on granting and revoking privileges with Example.	10M	5	L2