R20 Regulation *Subject code: 3E6EA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, April 2026

ADVANCED DATABASES

(CSE)

Maximum Marks: 70 Date: 21.04.2026 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	What is data server?	2M	1	L1
2	Write the design of parallel systems with example.	2M	1	L1
3	Define structured data type.	2M	2	L1
4	List XML applications.	2M	2	L1
5	Differentiate between Synonyms and Homonyms.	2M	3	L1
6	Define Ontologies.	2M	3	L1
7	Write about Performance Benchmarks in Advance application Development.	2M	4	L1
8	Write on e-commerce.	2M	4	L1
9	List out the database security issues.	2M	5	L1
10	Write about SQL Injection.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Discuss briefly what is intra and interoperation parallelism.	10M	1	L2
	OR			
12	a. Explain briefly about data base system architecture. b. Write a short notes query parallelism.	6M 4M	1	L2
13	a. Discuss about structured types and inheritance in SQL, with an example. b. Write a short notes Array and Multi set types in Structural Query Language.	5M 5M	2	L2
	OR			
14	a. Describe Storage of XML data with an example. b. Explain about API to XML.	5M 5M	2	L2
15	a. Discuss relevance ranking using terms. b. Write about Relevance using Hyperlinks in Data Base.	5M 5M	3	L2
	OR			
16	Discuss briefly about Directories and categories in information retrieval systems.	10M	3	L2
17	Discuss briefly about spatial and geographic data in data bases.	10M	4	L2

	OR			
18	Write briefly about transactional workflows.	10M	4	L2
19	a. Explain statistical Database Security briefly. b. Write a short notes on database security issues.	5M 5M	5	L2
	OR			
20	a. Explain about challenges to maintaining database security in database. b. Explain briefly about flow control.	5M 5M	5	L2