



R20 Regulation

Subject code:3E6HA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Regular Examinations, February 2024

ADVANCED DATABASES

(CSE(DS))

Maximum Marks: 70

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	Define Query optimization.	CO1	L1
2	Differentiate between intra queries and inter query parallelism.	CO1	L4
3	Define Table Inheritance.	CO2	L1
4	List the types of XML Databases.	CO2	L1
5	What are Hyperlinks and Why are they Important for Websites?	CO3	L1
6	Define Relevance Ranking.	CO3	L1
7	Define Main Memory Databases.	CO4	L1
8	List the properties of long duration transactions.	CO4	L1
9	Define SQL Injection.	CO5	L1
10	List different Security issues in Databases.	CO5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)			
11	What is query optimization and explain its two forms. 10M	CO1	L3
	OR		
12	Explain the different architectural designs for parallel DBMS. 10M	CO1	L3
13	A. Difference between Object Oriented DBMS and Object Relational DBMS. 5M B. Explain about XML Document Schema with an example. 5M	CO2	L4 L2
	OR		
14	Explain the utility of XML with the help of an XML document that shows the list of customers of an organization. You need to store customer name, current address and one or more phone numbers for each customer. Create the customer list at least two customers. Also create the DTD that verifies the created XML document. 10M	CO2	L3
15	A. Difference between Crawling and Indexing in web. 5M B. Explain about Indexing of Documents in detail. 5M	CO3	L4 L2

	OR		
16	A. Compare and contrast Synonym and Homonyms. 5M B. Define Directory and its Categories. 5M	CO3	L2 L2
17	A. Differentiate between Spatial Databases and Temporal Databases. 5M B. Explain about Real Time Transaction Systems. 5M	CO4	L4 L2
	OR		
18	Explain about Multimedia Databases in detail.10M	CO4	L3
19	A. Differentiate mandatory access control with Role based access control for Multi-Level Security. 7M B. Define Encryption. 3M	CO5	L4 L1
	OR		
20	Explain in detail about Discretionary access control based on granting and revoking privileges in database security. 10M	CO5	L3