



R20 Regulation

Subject code:3E6HA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, December 2024

ADVANCED DATABASES (CSE (DS))

Maximum Marks: 70

Date:02.01.2025

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 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	List out types of Database System Architectures?	1	L1
2	What are Page Shipping and Item Shipping?	1	L1
3	What is Path Expression?	2	L1
4	What are XQuery FLWOR Expressions?	2	L1
5	What are Ontologies?	3	L1
6	What is Web Crawling?	3	L1
7	Define Real-Time Transactions?	4	L1
8	What is Transaction Processing?	4	L1
9	What is Encryption?	5	L1
10	Define public Key Infrastructure?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Analyze the Parallel Systems and Parameters for Parallel Database Systems? [10M]	1	L2
OR			
12	Analyze and differentiate the four types of Parallel Join within Intraoperation Parallelism? [10M]	1	L2
13	Evaluate Object-Based Databases, outlining both their benefits and drawbacks to provide a comprehensive understanding of their functionality? [10M]	2	L2
OR			
14	Analyze the role and significance of Document Type Definitions (DTDs) in XML Databases? [10M]	2	L2
15	Analyze the process of indexing documents in information retrieval systems? [10M]	3	L2
OR			
16	Explain the concepts of directories and categories. [10M]	3	L2

17	Evaluate the concept of standardization in application development. [10M]	4	L2
	OR		
18	Evaluate the concept of real-time transaction systems. [10M]	4	L2
19	Analyze the concept of Mandatory access control and role based access for multilevel Security? [10M]	5	L2
	OR		
20	Evaluate the concept of SQL Injection. [10M]	5	L2