



R20 Regulation

Subject code:3E6FD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, December 2024

DISTRIBUTED DATABASES (IT)

Maximum Marks: 70

Date:07.01.2025

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	Define Centralized Database System.	1	L1
2	What are the promises of Distributed DBMS? Explain briefly	1	L1
3	Define Normalization.	2	L1
4	Define Local Query Optimization.	2	L1
5	What are the types of transactions?	3	L1
6	Define Serializability.	3	L1
7	What is MTBF and MTTR?	4	L1
8	Define Two Phase Commit protocol.	4	L1
9	Define Replication.	5	L1
10	What is Allocation?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain in brief architectural models for distributed DBMS. [10M]	1	L2
	OR		
12	Explain in brief about vertical fragmentation. [10M]	1	L2
13	Explain about Query Optimization techniques. [10M]	2	L2
	OR		
14	Discuss about centralized query optimization. [10M]	2	L2
15	Explain about Concurrency Control Mechanisms. [10M]	3	L2
	OR		
16	Discuss about conservative TO time stamp-based concurrency control algorithm. [10M]	3	L2
17	Discuss about network partitioning. [10M]	4	L2
	OR		
18	Explain about parallel DBMS techniques. [10M]	4	L2
19	Explain about Object Management. [10M]		L2
	OR		
20	Discuss about persistent programming languages. [10M]	5	L2