



R20 Regulation

Subject code:3E6FD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, May 2025

DISTRIBUTED DATABASES

(IT)

Maximum Marks: 70

Date: 25.06.2025

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

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain in brief architectural models for distributed DBMS.	10M	1	L2
	OR			
12	Explain in brief about vertical fragmentation.	10M	1	L2
13	Discuss the objectives of query processing.	10M	2	L2
	OR			
14	Discuss about centralized query optimization.	10M	2	L2
15	Explain in detail about the properties of transaction.	10M	3	L2
	OR			
16	Discuss about dead lock management.	10M	3	L2
17	Explain about Local reliability protocols.	10M	4	L2
	OR			
18	Discuss about parallel execution problems.	10M	4	L2
19	Explain about Object Management.	10M	5	L2
	OR			
20	Discuss about persistent programming languages.	10M	5	L2