



R20 Regulation

Subject code:3E5HA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, May 2025

**DISTRIBUTED DATABASES
(CSE(DS))**

Maximum Marks: 70

Date: 26.06.2025

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 Distributed Database.		2M	1	L1
2	What are the distribution design issues?		2M	1	L1
3	What is meant by query processing?		2M	2	L1
4	What is meant by R* algorithm?		2M	2	L1
5	What are the Properties of Transaction?		2M	3	L1
6	Define Deadlock.		2M	3	L1
7	Define Fault and its types.		2M	4	L1
8	What are the Partitioning techniques in Parallel Data Placement?		2M	4	L1
9	Define Inheritance.		2M	5	L1
10	What is meant by distributed object storage?		2M	5	L1
Part-B					
Answer All the following questions.		(5X10M=50Marks)	Marks	CO	BTL
11	Explain Promises of Distributed DBMS.		10M	1	L2
OR					
12	Explain Distributed Design strategies and its advantages and disadvantages.		10M	1	L2
13	Explain query processing with examples.		10M	2	L2
OR					
14	Explain Centralized Query Optimization.		10M	2	L2
15	Explain Locking Based Concurrency Control Algorithms.		10M	3	L2
OR					
16	Explain Deadlock Management.		10M	3	L2
17	Explain 2 Phase and 3 Phase commit Protocols with neat diagrams.		10M	4	L2
OR					
18	Explain Parallel Database Architectures with neat diagrams.		10M	4	L2
19	Explain briefly about Object Distributed Design and architectural issues in distributed object DBMS.		10M	5	L2
OR					
20	Explain about Fundamental Object Concepts and Object Distributed Design.		10M	5	L2