R20 Regulation *Subject code:* **3E6FD**

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, February 2024

DISTRIBUTED DATABASES

(Information Technology)

Maximum Marks: 70 Date: 24.02.2024 Duration: 3 hours

Part-A			
All the following questions carry equal marks (10X2M=20Marks)		CO	Bloom Tx
1	What is meant by distributed database system?	CO1	L1
2	What are the distribution design issues?	CO1	L1
3	What is meant by query processing?	CO2	L1
4	What is meant by query Decomposition?	CO2	L1
5	Define Transaction.	CO3	L1
6	What are the properties of Transaction	CO3	L1
7	What is meant by fault-tolerance in distributed system	CO4	L1
8	Define Reliability?	CO4	L1
9	What are the fundamentals of object concepts	CO5	L1
10	Write short notes on object distribution design?	CO5	L1
Part-B			
Answer All the following questions. (5X10M=50Marks)			
11	A. Briefly explain distributed data processing. [5] B. What are the promises of distributed database system [5]	CO1	L2 L2
	OR		
12	A. Write and explain alternative design strategies [5] B. Explain architectural model for distributed DBMS. [5]	CO1	L2 L2
13	What are the steps in query optimization explain detail. [10]	CO2	L2
	OR		
14	A. Explain briefly about query decomposition & data localization. [5] B. Briefly describe the characterization of query processors. [5]	CO2	L2 L2

15	A. Explain the Optimistic Concurrency Algorithm. [5] B. Write notes on Deadlock Management. [5]	CO3	L3 L2
	OR		
16	A. Explain serializability theory with an example. [5] B. Explain briefly about properties of transaction. [5]	CO3	L2 L2
17	A. Write about Local and Distributed reliability Protocols [5] B. What are the Failures in Distributed DBMS? [5]	CO4	L2 L2
	OR		
18	A. Write notes on Fault – tolerance in Distributed System. [5] B. Explain about parallel database system architecture. [5]	CO4	L2 L2
19	A. Explain briefly about distributed object storage. [5] B. Write notes on Persistence Programming Language. [5]	CO5	L2 L2
	OR		
20	Explain briefly about architectural issues in distributed object DBMS? [10]	CO5	L2