R17 Regulation *Subject code:1E7FF*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Year I Semester Supplementary Examinations, JANUARY 2023

DISTRIBUTED DATABASES

(IT)

Maximum Marks: 70 20-01-2023 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)

1 Define Distributed Database.
2 Why distributed databases are essential?
3 What is meant by query processing?
4 What are the objectives of query processing?
5 Define Transaction?
6 What are the termination conditions of transaction?
7 Define Reliability?
8 What are the reliability concepts?
9 Define abstract data types.
10 What are the kinds of object distribution design?

Part-B

Answer All the following questions. (10M X 5=50Marks)

11 a) Explain Promises of DDBSs.
b) Explain Briefly about MDBS Architecture. [5+5]

OR

12 a) Explain about Architectural Models for DDBMS.
b) Explain about DBMS Standardization? Give Examples. [5+5]

13 Discuss the problems in query optimization. [10]

OR

14 Discuss parametric queries in detail. [10]

15 a) Explain about properties of transaction.
b) Explain about types of transactions. [5+5]

OR

16 Explain serializability theory with an examples. [10]

17 a) Explain the failures in DDBMS.
b) Explain by means of a diagram the interface between the local recovery manager & buffer manager. [5+5]

OR

18 Explain the following: a) Primary site approach b) Primary copy locking c) Site-to-site Protection. [10]

19 Explain briefly about architectural issues in distributed object DBMS? [10]

OR

20 a) Explain about horizontal class partitioning.
b) compare OODBMS and ORDBMS. [5+5]