



R20 Regulation

Subject code: 3P4FC

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

## B.Tech IV Semester Supplementary Examinations, July 2024

### DATABASE MANAGEMENT SYSTEMS

(IT)

Maximum Marks: 70

Date:23.07.2024 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	List the advantages and disadvantages of DBMS?	1	L1
2	Write about Data Manipulation Language?	1	L1
3	Define INTERSECT operation in Relational algebra?	2	L1
4	What is the use of group by clause?	2	L1
5	Define functional dependency.	3	L1
6	Define First Normal Form.	3	L1
7	Define a Transaction.	4	L1
8	Explain about different types of locks?	4	L1
9	Explain about B+ tree index file?	5	L1
10	Write about Clustered indexes.	5	L1

#### Part-B

Answer All the following questions. (5X10M=50Marks)			
11	Explain about Database users and Administrators. [10]	1	L2
OR			
12	Explain about Database Languages. [10]	1	L2
13	Explain Set operations of Relational Algebra with examples. [10]	2	L2
OR			
14	Explain about Tuple Relational Calculus? [10]	2	L2
15	Explain BCNF. What are the steps to be followed to convert a relation in 3NF to BCNF? [10]	3	L2
OR			
16	Explain about second normal form with example. [10]	3	L2
17	Explain about Conflict Serializability? [10]	4	L2
OR			
18	Explain about multiple granularity and multi version schemes. [10]	4	L2
19	Explain about Buffer management. [10]	5	L2
OR			
20	Explain about tree structured indexing. [10]	5	L2

