



B.Tech VII Semester Supplementary Examinations, December 2024

DATABASE MANAGEMENT SYSTEMS
(Civil Engineering)

Maximum Marks: 70

Date:07.01.2025

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 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	Define weak and strong entity sets?	1	L1
2	Define NULL values?	1	L1
3	What are stored and derived attributes?	2	L1
4	What is meant by normalization of data?	2	L1
5	Explain trivial dependencies?	3	L1
6	What is super key?	3	L1
7	Define a Transaction? List the properties of transaction.	4	L1
8	Define Two Phase Commit protocol?	4	L1
9	Difference between primary and secondary index?	5	L1
10	What is a duplicate data entry in an index? Can a primary index contain duplicates?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Describe relational databases, how they have been used in the past, and how they are used currently to implement solutions in technology. [10M]	1	L2
OR			
12	Draw an Entity Relationship (ER) for railway reservation system. [10M]	1	L2
13	Apply relational algebra and set theory that are supported in the relational model[10M]	2	L2
OR			
14	Describe briefly a) Entity b) attribute c) Primary key d) foreign key[10M]	2	L2
15	Write short notes on difference, union, rename, Cartesian product in relational algebra. [10M]	3	L2
OR			
16	How the lock manager implements lock and unlock request. Explain in detail. [10M]	3	L2

17	Discuss in detail Multiple Granularity? [10M]	4	L2
	OR		
18	Explain in detail Storage structure? [10M]	4	L2
19	Discuss in detail about multiple granularity. [10M]	5	L2
	OR		
20	Explain extensions of association rules to ISAM hierarchies? [10M]	5	L2