

**Code No: 7EC03**

**Date: 09-Aug-2023 (T.N)**

**B.Tech II-Year II- Semester External Examination, Aug - 2023 (Supplementary)**  
**DATABASE MANAGEMENT SYSTEMS (CSE, IT and ECM)**

**Time: 3 Hours**

**Max.Marks:70**

**Note:** a) No additional answer sheets will be provided.  
b) All sub-parts of a question must be answered at one place only, otherwise it will not be valued.  
c) Missing data can be assumed suitably.

**Bloom's Cognitive Levels of Learning (BCLL)**

Remember	L1	Apply	L3	Evaluate	L5
Understand	L2	Analyze	L4	Create	L6

**Part - A**  
**ANSWER ALL QUESTIONS**

**Max.Marks:20**

	BCLL	CO(s)	Marks
1 Define Database System.	L2	CO1	[2M]
2 What is Integrity Constraint?	L2	CO2	[2M]
3 What are DDL commands in SQL, explain each of them.	L3	CO3	[2M]
4 Describe the Schema Refinement.	L1	CO4	[2M]
5 Explain how a transaction works using example in DBMS.	L2	CO5	[2M]
6 Describe the External Storage devices.	L1	CO6	[2M]
7 What is difference between Data and Information?	L2	CO1	[2M]
8 Give the examples of Aggregate operators.	L2	CO3	[2M]
9 Discuss about the Atomicity and Durability.	L1	CO5	[2M]
10 What is Redundancy?	L3	CO4	[2M]

**Part - B**  
**ANSWER ANY FIVE QUESTIONS. EACH QUESTION CARRIES 10 MARKS.**

**Max.Marks:50**

	BCLL	CO(s)	Marks
11. a) Explain about the Data base System Applications.	L2	CO1	[5M]
b) Discuss about the Data base System Vs File System.	L2	CO1	[5M]
12. a) Describe the Querying relational data.	L3	CO2	[5M]
b) Understand the Logical Data base Design.	L3	CO2	[5M]
13. a) Describe the Nested Queries with examples.	L2	CO3	[5M]
b) Evaluate the Correlated Nested Queries with examples.	L2	CO3	[5M]
14. a) What is Decomposition? Discuss about Problems related to Decomposition.	L1	CO4	[5M]
b) Explain about the FIRST and SECOND Normal Form.	L1	CO4	[5M]
15. a) Discuss about the Concurrent executions using Strict 2PL and Rigorous 2PL.	L1	CO5	[5M]
b) Describe the Serializability and its types with examples.	L1	CO5	[5M]
16. a) Understand the File Organization and Indexing.	L2	CO6	[5M]
b) Illustrate the Cluster Indexes with an example.	L2	CO6	[5M]
17. a) What is the Data Abstraction in DBMS?	L1	CO1	[4M]
b) What are Views? Explain with example.	L1	CO2	[3M]
c) Understand the Comparison Operators.	L2	CO3	[3M]
18. a) Explain about the THIRD and FOURTH Normal Forms.	L2	CO4	[4M]
b) Discuss about the Recoverability and its types.	L2	CO5	[3M]
c) Differentiate the Primary and Secondary Indexes.	L2	CO6	[3M]