Code No: 8EC03   **Date: 09-Aug-2023 (FN)**

B.Tech II-Year II- Semester External Examination, Aug - 2023 (Regular & Supplementary)
DATABASE MANAGEMENT SYSTEMS (CSE, IT, ECM, DS, CS, AIML and IOT)

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   Max.Marks:20
ANSWER ALL QUESTIONS

		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   Max.Marks:50
ANSWER ANY FIVE QUESTIONS. EACH QUESTION CARRIES 10 MARKS.

			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 Serializabilty 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]

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