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(An Autonomous Institution)

Regulations: A15

Code No: 5FC03 **Date: 09-Aug-2023 (FN)**

B.Tech II-Year II- Semester External Examination, Aug - 2023 (Supplementary)

DATABASE MANAGEMENT SYSTEMS (CSE, IT and ECM)

Time: 3 Hours **Max.Marks:75**

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:25

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	[3M]
7	What is difference between Data and Information?	L2	CO1	[3M]
8	Give the examples of Aggregate operators.	L2	CO3	[3M]
9	Discuss about the Atomicity and Durability.	L1	CO5	[3M]
10	What is Redundancy?	L3	CO4	[3M]

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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