

Sr H.T No

(An Autonomous Institution)

Regulations: A15

Code No: 5FC03 Date: 02-Aug-zuzz (FN)

B.Tech II-Year II- Semester External Examination, July/August - 2022 (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.

ANSWER ANY 5 OUT OF 8 QUESTIONS. EACH QUESTION CARRIES 15 MARKS. Bloom's Cognitive Levels of Learning (BCLL)

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

		7			
			BC LL	CO(s)	Marks
1.	a)	Draw and explain the architecture of Database Management System with neat diagram.	L2	CO1	[8M]
	b)	Summarize the additional features of ER Model.		CO1	[7M]
2.	a)	What is view in SQL? Differentiate different types Views and also explain operations of Views with example.		CO2	[8M]
	b)	Illustrate the different operations in Relational Algebra with the help of an example.	L4	CO2	[7M]
3.	a)	Explain the operators in SQL with examples. i) ANY ii) IN iii) ALL iv) MINUS	L2	CO3	[8M]
	b)	Write the importance of Joins in Databases and also list its types with examples.	L1	CO3	[7M]
4.	a)	Define normalization. Demonstrate the difference between 3NF and BCNF with suitable example.	L3	CO4	[8M]
	b)	Define a Functional Dependency. Explain the types of Functional Dependency.	L2	CO4	[7M]
5.	a)	Interpret the ACID properties of a Data Base Transaction.	L5	CO5	[8M]
	b)	Differentiate between Lock based Protocols and Time stamp Based Protocols.	L4	CO5	[7M]
6.	a)	Elaborate different types of operations in ISAM structure by taking a sample example.	L2	CO6	[M8]
	b)	Describe the various types of File Organization techniques.	L1	CO6	[7M]
7.	a)	Analyze the responsibilities of DBA.	L4	CO1	[5M]
	p)	Identify any three differences between primary key and foreign key.	L1	CO2	[5M]
	c)	Summarize any four SQL Aggregate operators with an example.	L6	CO3	[5M]
8.	a)	What is decomposition? What are the problems that can be caused by using decomposition?	L1	CO4	[5M]
	b)	Discuss about cascade and cascade-less schedules.	L2	CO5	[5M]
	c)	Categorize the types of storage devices.	L6	CO6	[5M]