R20

SET - 1 Code No: R2021121

II B. Tech I Semester Supplementary Examinations, July - 2023 DATABASE MANAGEMENT SYSTEMS

(Com to IT,CSE(AIML),AI,DS,CSE(AIDS),AIML,CSD, CSE(AI) CSE(DS), AIDS) Time: 3 hours Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks			
1	a)	Define DBMS? Discuss in brief about the applications of DBMS.	[7M]
	b)	Describe in detail about two-tier client-server architecture for the database.	[7M]
		Or	
2	a)	What is DBA? Mention the functionalities of DBA.	[7M]
	b)	Explain the concept of Data independence.	[7M]
		UNIT-II	
3	a)	Enumerate the concept of domain, key and Integrity constraints with a suitable example.	[7M]
	b)	What is SQL single row function? By means of suitable examples illustrate the usage of SQL date, character and number functions	[7M]
		Or	
4	a)	Write short notes on	[7M]
	b)	i) DDL ii) DML iii) Database Schema.Explain Logical operations of SQL with a suitable examples.	[7M]
		UNIT-III	
5	a)	What is a weak entity type? How to model it? Explain with suitable example.	[7M]
	b)	How we can translate E-R diagram with aggregation? Explain.	[7M]
		Or	
6	a)	Differentiate between independent and correlated nested queries	[7M]
	b)	What is a group function? List and explain how to use group functions in SQL with appropriate example.	[7M]
		UNIT-IV	
7	a)	What is meant by functional dependencies? Discuss about second normal form with suitable example.	[7M]
	b)	Explain fourth normal form in detail.	[7M]
		Or	
8	a)	What are the steps to be followed to convert a relation in 3NF to BCNF?	[7M]
	b)	With a suitable example, illustrate the concept of dependency preserving decomposition.	[7M]
0		UNIT-V	
9	a)	Discuss about failure with loss of nonvolatile storage.	[7M]
	b)	What is schedule? Explain about serial and non serial schedule.	[7M]

Or

10 a) How the concurrency control is done in B+ trees? Explain. [7M]

b) How the lock manager implements lock and unlock requests? Explain [7M]

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