Code No: RT31054



III B. Tech I Semester Supplementary Examinations, October/November- 2018 DATABASE MANAGEMENT SYSTEMS

(Common to Computer Science Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answering the question in Part-A is compulsory

3. Answer any **THREE** Questions from **Part-B**

----- PART –A

1	a)	List the disadvantages of file system.	[4M]
	b)	How to define a domain constraint? Give an example.	[3M]
	c)	What is a view? What is an updatable view?	[4M]
	d)	Does 3NF allow redundancy? Justify your answer.	[4M]
	e)	State Thomas write rule.	[3M]
	f)	Differentiate between sparse and dense index.	[4M]
PART –B			
2	a)	How does DBMS provide data abstraction? Explain the concept of data independence.	[8M]
	b)	With a neat diagram describe the overall system structure of DBMS.	[8M]
3	a)	What is an integrity constraint? Explain its enforcement by DBMS with illustrative example	[8M]
	b)	List the data types supported by SOL	[5M]
	c)	Demonstrate the use of DISTINCT keyword in SQL select statement.	[3M]
4	a)	What is meant by existential dependency of an entity set? Explain with an example.	[4M]
	b)	Consider the following database schema to write nested queries in SQL Supplier (id, name, city)	[12M]
		Parts(pno, pname, pdescription) Supply(id_pno_cost)	
		i) Find the names of the parts supplied by "RamRaj"	
		ii) Find the names of the suppliers who supply "Nuts"	
		iii) Find the cost of bolts being supplied by Nagpur suppliers.	
5	a)	Discuss the problems caused by redundancy and the purpose of normalization.	[10M]
	b)	Give relation schemas for the following normal forms i) 2NF but not in 3NF ii) 3NF but not in BCNF	[6M]
6	a)	Does two phase locking protocol ensure conflict serializability? Justify your answer with appropriate examples.	[8M]
	b)	Write PL/SQL procedure to read student roll number from user, fetch marks from student table for this student, compute grade and update the grade column of the table.	[8M]
		STUDENT(roll number, name, marks1, marks2, marks3, marks4, grade) [follow regular convention for student grades(A,B,C,D,F)]	
7	a) b)	Make a comparison of hash file organization with heap file organization. Demonstrate bulk loading of B+ tree of order 3 with the following data (key*) 56*, 32*, 18*, 72*, 45*, 16*, 98*, 83*, 81*, 27*, 39*, 51*, 66*, 44*, 33*, 22*	[6M] [10M]



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