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SET - 1

III B. Tech I Semester Supplementary Examinations, May- 2018 DATABASE MANAGEMENT SYSTEMS

(Common to Computer Science Engineering and Information Technology)

Tim	Time: 3 hours Max. Mark	
	 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 	
a)	What is the need of data model in DBMS and give its classification	[3M]
b)	List the SQL functions for string conversions.	[4M]
c)	How to represent a weak entity set in ER diagram? Quote suitable example.	[4M]
d)	What is a surrogate key? How can it be used for schema refinement?	[4M]
e)	Compare wait/die with wound/wait scheme.	[4M]
f)	Quote an example for an index on multiple keys of a relation schema. PART -B	[3M]
a)	Who are the different database users? Explain their interfaces to database management system.	[8M]
b)	Describe the client server architecture for the database with necessary diagram.	[8M]
a)	What is NULL? What is its importance? How are these values handled in relational model?	[7M]
b)	Consider the following database schema to write queries in SQL Sailor(sid, sname, age, rating) Boats(bid, bname, bcolor) Reserves(sid, bid, day) i) Find the sailors who have reserved a red boat ii) Find the names of the sailors who have reserved at least two boats iii) Find the colors of the boats reserved by 'Mohan'.	[9M]
a)	Define the following terms and give examples	[10M]
b)	(i)cardinality (ii)unary relationships (iii)aggregation (iv)specialization	
	Illustrate different types of joins in SQL	[6M]
a)	How to compute closure of set of functional dependency? Explain with a suitable example schema.	[8M]
b)	What is multi valued dependency? State and explain fourth normal form based on this concept.	[8M]
a)	Define transaction and explain desirable properties of transactions.	[8M]
b)	What is a trigger? How to create it? Discuss various types of triggers.	[8M]
a)	Discuss the concept of cylinder and its benefit in disk organization.	[6M]
b)	Which file operations are preferred on hash file and why?	[4M]
c)	Is B+ tree, a multi level indexing? How does it differ from B-tree?	[6M]
