

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

(Common to Computer Science Engineering and Information Technology)

Tir	ne: 3 hours Max. Ma	rks: 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	
<u>PART –A</u>		
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.	[3M]
	PART -B	
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	[9M]
	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'.	
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]

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