Code: CSCS1T4

I M. Tech - I Semester - Regular Examinations - April, 2015

DATABASE MANAGEMENT SYSTEMS (COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours	Marks: 5x14=70	
Answer any FIVE questions. All questions carry equal mark		
1 a) Enumerate and discuss the Management System.	ne advantages of a Database 7 M	
b) Discuss Three schema ar	chitecture. 7 M	
2 a) Describe the relationship between Entities, Attributes an Entity sets.		
b) Briefly discuss about con	ceptual design with the ER model.	
3 a) What are relational databa	ase constraints. 7 M	
b) Differentiate between rela calculus.	ational algebra & relational 7 M	
4 a) Explain briefly about Thin	rd Normal Form. 7 M	
b) What are Dependency-Pro	eserving Properties? Explain. 7 M	

5	a) Discuss briefly about File organization and Indexing.	7 M
	b) Explain in brief disk access using RAID technology.	7 M
6	a) Explain SELECT and JOIN operations with examples.	7 M
	b) Give an overview of query optimization in Oracle.	7 M
7	a) Explain the desirable properties of Transactions.	7 M
	b) Define and explain serializability with an example.	7 M
8	a) Briefly discuss about Lock-Based concurrency control.	7 M
	b) Enumerate and explain ARIES Recovery Algorithm.	7 M