Code No. 4218

FACULTY OF ENGINEERING

B.E. 3/4 (CSE) I Sem. Suppl. Examination

June - 2008

Subject : Data Base Management System

Time: 3 hours]

[Max. Marks: 75

Note :	(a) Answer <i>all</i> questions from Part-A and
	(b) Answer <i>five</i> questions from Part-B.

PART - A (25 marks)

1.	What is meant by 'Data Abstraction' ? Explain.	3		
2.	Briefly explain about 'Weak Entity'	2		
3.	Describe about 'Domain Constraints'.	3		
4.	Explain when a relation is said to be in First Normal Form.			
5.	List and explain about various steps in 'Query Processing'.			
6.	Briefly explain about 'Pinned Record'.	2		
7.	Explain how to transform a Relational Expression.	3		
8.	Draw and explain 'State Diagram of a Transaction'.	2		
9.	What is meant by 'Database Buffering' ? Explain.	3		
10.	Explain about 'Stable Storage'.	2		
	PART-B (5×10=50 marks)			
11.	(a) Describe about 'Storage Manager'.	5		
	(b) Explain how to reduce E-R diagrams to tables.	5		
12.	(a) Explain about the following	3+3		
	(i) Security			
	(ii) Third Normal Form			
	(b) Differentiate between 'group by' and 'order by' clauses in SQL.	4		

Placement papers of IT and Non IT companies, question patterns, papers with solution

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(2)

13.	(a) Construct the B+Tree and B-Tree for the following set of search key va where a node in the tree can accommodate three pointers.							
	15 25 35 45	55	65	75	85			
	(b) Describe about 'Dynamic H	Hashing'.			4			
14.	(a) Describe about 'ACID Properties'.							
	(b) Explain the following		3+3					
	(i) Conflict Equivalent							
	(ii) Catalog Informati	on						
15.	(a) Describe about 'Immediate Database Modification.' 4							
	(b) Explain the following.							
	(i) Transaction Rollback							
	(ii) Parallel Database Architecture							
16.	(a) What is the functionality of following operations in Relational Algebra? 6							
	Rename	Division	n	Natura	al-Join			
	(b) Explain how to design the database.							
17.	Write short notes on any two		5+5					
	(a) Encryption							
	(b) Assertions							
	(c) Distributed Systems							