Code No: 07A4EC14



Set No. 3

II B.TECH II SEM-REGULAR/SUPPLEMENTARY EXAMINATIONS MAY - 2010

DATABASE MANAGEMENT SYSTEMS

Common to Information Technology, Computer Science And Engineering Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star \star$

1.	Explain Buffer Management in detail.		
2.	Define functional dependencies. How are primary keys related to Functional dependency's? [1		
3.	Expl	lain Different states of Transactions?	[16]
4.	(a)	Explain the difference between logical and physical data independence.	
	(b)	Give short notes on Transaction management. [8	+8]
5.	(a)	Define all the variations of the join operation. Why is the join operation gi special attention? Cannot we express every join operation in terms of Cro product, Selection and Projection?	ven oss-
	(b)	Relational Calculus is said to be a declarative language, in contrast to algebraic which is a procedural language. Explain the distinction. [8]	bra, +8]
6.	(a)	Write a detail note on participation constraint.	
	(b)	What is the class hierarchy? How is it represented in the ER diagrams? [8	+8]
7.	Expl	lain heap file with un clustered Hash index?	[16]
8.	(a)	Write the following queries in SQL using Nested queries concept for follow Schema. Sailors (sid: integer, sname: string, rating: integer, age: real) Boats (bid: integer, bname: string, color: string) Reserves (sid: integer, bid: integer, day: date)	ving
		i. Find the names of sailors who have reserved both red and green boatii. Find the names of sailors who have reserved all boatsiii. Find the names of sailors who have not reserved red boativ. Find sailors whose rating is better than some sailor called raghu.	
	(b)	What is a correlated nested query? Explain with an example. [12	+4]
