Code No: C1510

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY-2012 DATA BASE MANAGEMENT SYSTEM (MACHINE DESIGN)

Time: 3hours Max.Marks:60

Answer any five questions All questions carry equal marks

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- 1. Draw neatly and explain the Database management system architecture.
- 2. a) What is conceptual database design and how it could have impact on enterprise.
 - b) Explain the relationship among the entities in ER diagrams.
- 3. a) Define Primary key, Secondary key and unique key.
 - b) What are normal forms? Explain the 1NF, 2NF and BCNF.
- 4. List out the logical connectivity's? How these connectivity's impact on SQL Constructs? Discuss suitable examples.
- 5. What are the three phases of ARIES recovery algorithm? Explain each of them.
- 6.a) List out three differences between the B Tree and B+ Tree.
 - b) Explain the indexed sequential access methods.
- 7. Explain the specialized locking techniques concurrency without locking.
- 8. Write short notes on cluster indexing, crash recovery and check points.
