2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

First Semester M.Tech. Degree Examination, December 2011 **Advances in DBMS**

Time: 3 hrs. Note: Answer any FIVE full questions.			/larks:100
1		What do you mean by NULL value problem in DBMS? Discuss the various lead to the occurrence of NULL values in relations. Give two examples. What is an object identifier? What primary characteristics should an OID posses its advantages and disadvantages?	(10 Marks)
2		What is the difference between persistent and transient objects? How is persisted in typical 00 database systems? Give an example. Discuss structured and unstructured complex objects. Give the differences.	ence handled (10 Marks) (10 Marks)
3		What are the differences and similarities between objects and literals in the O model? Give examples. Give the steps involved in mapping from EER to ODL.	DMG object (10 Marks) (10 Marks)
4	b.	Discuss the inheritance and overloading of functions in SQL. Discuss the design and implementation issues for active databases. Discuss the multimedia database concepts.	(06 Marks) (07 Marks) (07 Marks)
5		What are the functions that need to be provided by distributed databases in addition to those of centralized DBMS? (10 Marks) What is fragmentation? Discuss data fragmentation in distributed database design. (10 Marks)	
6	a. b.	Explain the different types of distributed database systems. Discuss the query processing in distributed databases.	(08 Marks) (12 Marks)
7	а	Discuss the steps involved in building a data warehouse.	(10 Marks)

- a. Discuss the steps involved in building a data warehouse. 7
 - Explain the association rules and Apriori algorithm, in detail. (10 Marks)
- What are classification rules? How are decision trees related to them? Explain with 8 (06 Marks) examples.
 - b. What are the characteristics of data in GIS? What are constraints present in GIS? (07 Marks)
 - c. List all the characteristics of biological data. (07 Marks)

