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

USN

## First Semester M.Tech. Degree Examination, January 2011

## **Advances in DBMS**

Max. Marks:100 Time: 3 hrs.

Note: Answer any FIVE full questions.

1	<b>a</b> .	Define domain, tuples, attributes and relations.	(08 Marks)
1	а. b.	Explain the characteristics of a relation.	(06 Marks)
	c.	With an example, explain entity integrity referential integrity and foreign key cons	,
	C.	With all example, explain entity integrity referential integrity and research	(06 Marks)
			,
2	a.	Explain the features of object oriented concepts, supported by DBMS.	(08 Marks)
_	b.	With an example, explain the object structure. Also mention different types of con	structors.
			(06 Marks)
	c.	Bring out some differences between structured and unstructured complex objects.	(06 Marks)
_		AND A CONTROL OF The Annual Control of the A	for nort of
3	a.	What is an ODL? Explain graphical notations and object database schema f	(10 Marks)
	b.	university database. Briefly explain the mapping of ERR schema to an ODB schema.	(10 Marks)
	0.	Biletry explain the mapping of Erect senema to an OBB senema.	(201////////////////////////////////////
4	a.	With an example, explain the generalized model for active database.	(08 Marks)
	b.	Give the syntax summary for specifying triggers in oracle system.	(06 Marks)
	c.	Explain the categories of spatial queries. Also mention prolog / datalog notation	
		example.	(06 Marks)
_		Give the architectures for parallel database. Also explain improved parallel hash jo	nin
5		Give the architectures for paramet database. Also explain improved paramet hash jo	(20 Marks)
6	a.	Explain the distributed concurrency control. Why distributed recovery is neede	d? Explain
•	٠.	2 – phase commit protocol.	(10 Marks)
	b.	Write a brief note on multidimensional data model and database design.	(10 Marks)
7	a.	With a neat diagram, explain the architecture of data warehousing.	(10 Marks)
,	a. b.	Explain view and its materialization. Mention the issues that arise in view mate	
	٠.	2F	(10 Marks)
8		Write short notes on:	(20 Marks)
Ũ	a.	Views with aggregation	
	b.	KDD process	
	c.	Mining for rules	
	1	Consulting Links westign evetons	

Geographical information system.