## CBCS Scheme

USN		16/17S	CS/SIT13	
	-	First Semester M.Tech. Degree Examination, June/July 20	18	
		Advances in Data Base Management System	ì	
Time: 3 hrs.			1arks: 80	
1 111	ile. J	o itis.	Taiks. 60	
	N	lote: Answer any FIVE full questions, choosing one full question from each mo	dule.	
		Module-1		
1	a.			
		important.	(06 Marks)	
	b.	Explain the violation of the integrity constraint in each of the three type	-	
		operations.	(10 Marks)	
		OR		
2	a.	Define the following terms with respect to object oriented Data base Terminolog		
	h	i) Method ii) Signature iii) Message iv) Collection v) Extent. Explain specifying object persistent via naming and reachability.	(10 Marks) (06 Marks)	
	0.7	Explain specifying object persistent via naming and reachability.	(00 Maixs)	
~ <	E.T.	Module-2		
<b>3</b> -	∖a.	What are the functions of the Object definition Language and Object manipulation		
Digital .	b.	in the ODMG standard? Explain the mapping an EER schema to an ODB schema.	(06 Marks) (10 Marks)	
	υ.	Explain the mapping an EER schema to an ODB schema.	(10 Marks)	
		OR		
4	a.	Discuss the general principle behind the C++ binding of the ODMG standard.	(06 Marks)	
	b.	<ul><li>i) Explain the concept of complex object.</li><li>ii) What is object and literal? What is the difference between them?</li></ul>	(06 Marks)	
	c.	Explain the Nested relational model.	(04 Marks)	
5		Module-3 Describe the three main architectures for parallel DBMS.	(00 Maulus)	
3	a. b.	Explain fragmentation and replication of relation in distributed DBMS.	(08 Marks) (08 Marks)	
			,	
_		OR L	40.55	
6	a. b.	Discuss the concept of parallelizing individual operations.  Explain synchronous and asynchronous replication. Also explain the terms	(10 Marks) capture and	
	J.			

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.

Module-4

Explain OLAP operations in the multidimensional Data model. 7 (10 Marks)

Explain Top N queries and online aggregation.

apply with respect to asynchronous replication.

(06 Marks)

(06 Marks)

8 Explain the role of Data mining in the KDD process. (06 Marks)

What is Apriori property? Describe an algorithm for finding frequent item sets. (10 Marks)

## 16/17SCS/SIT13

Module-5

9 a. Explain the components of ECA model.

(05 Marks)

b. What are the difference between Valid time and transaction time and bitemporal relations?

(06 Marks)

c. Explain Infrastructural based mobile flat form, with a neat diagram.

(05 Marks)

OR

10 a. List and explain the data management issues.

(08 Marks) (08 Marks)

b. Explain the types of multimedia data's available and multimedia applications.