## CBCS SCHEME

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USN				*	20SCS13
		First Semester M.Tech	. Degree Examinat	ion, Jan./Feb.	2023
		Advanced Datal			
		Advanced Batal	Jase Managem		
Tin	ie: 3	3 hrs.		Max	x. Marks: 100
			A.7		
	N	ote: Answer any FIVE full quest	tions, choosing ONE full	l question from each	h module.
			N. J. J. 1		
1	a.	Discuss on the characteristics of	Module-1	Ferent from a file or	a table
1	a.	Discuss on the characteristics of	Telations that make it the	actent from a fric of	(10 Marks)
	b.	Explain the 3 basic constructs	used in ODBs with an e	xample object speci	
		constructors.	4		(10 Marks)
			OP		
2	a.	Demonstrate how constraints wi	OR	tabase modification	operation
2	a.	Demonstrate now constraints wi	if of violated during a da	tabase modification	(10 Marks)
	b.	Mention the steps for mapping a	n EER schema to an OD	B schema.	(10 Marks)
			GAY		
•		Tiet and emplein some of the	Module-2		4.4
3	a.	List and explain some of the efficiently on HDDs.	commonly used techniq	ues to make acces	sing data more (10 Marks)
	b.	What are the advantages of dist	ributed databases? Expla	in the different data	
		done in distributed databases.		< **	(10 Marks)
		B 11 16 16 11 11 11 11 11 11 11 11 11 11	OR		
4		Describe the different hashing to With neat diagrams, compare			
	b.	databases and federated database		chema architecture	(10 Marks)
			y 9 y		(10 Iviains)
		9	Module-3		
5	a.	What are the characteristics of N	_		(10 Marks)
	b.	With the help of basic executi	on workflow of MapRe	duce, explain the n	
	G	operations.	4		(10 Marks)
	-		OR		
6	a.	Describe about Replication and			(10 Marks)
	b.	Explain about the architecture of		ghlights.	(10 Marks)
		4			

Module-4
Explain the concept of spatial data indexing along with the spatial indexing techniques used. (10 Marks)

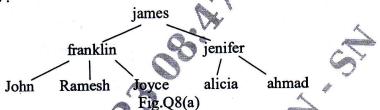
(10 Marks)

b. Explain any five types of queries in IR systems.

(10 Marks)

OR

8 a. Consider the supervisory tree below and write the prolog notation for the same with facts, rules and queries:



b. Given a set of query terms, explain how searching for relevant documents is done from the inverted index. (10 Marks)

9 a. Write and explain with an example the apriori algorithm for finding frequent (large) itemsets. (10 Marks)

b. With the general architecture of a data warehouse, explain the characteristics of data warehouse. (10 Marks)

10 a. Write and explain with an example, the algorithm for Decision Tree Induction.
b. Explain the steps involved in acquisition of data for the data warehouse. (10 Marks)