Enrollmer		TCHAH	Exam Seat No: UNIVERSITY			
			mination-2022			
Subject Na	ame : Database	Management Sys	tem			
Subject Code: 4TE03DMS1			Branch: B.Tech (CE)			
Semester:	Date	: 16/01/2023	Time: 02:30 To 05:30	Marks: 70		
(2) In: (3) Di	se of Programmal structions written	on main answer besand figures (if ne	ny other electronic instrument is pook are strictly to be obeyed. ecessary) at right places.	orohibited.		
Q-1	Attempt the	following questio	ns:	(14)		
•	a)	is the nowerfi	al language for working with RD	RMS		
	b) SQL does not a.	t supports to perfor	rm nested function			
(c) Which of the creating the s a. b. c.		na	ce		
((1		Bangaage			
		IS?				
	d) What is DBM		any relationship between Teache	r and		

- f) In one-to-many relationship the table on 'many' side is called _____
 - a. Parent
 - b. Child
 - c. Sister
 - d. Master
- g) Which of the following enables us to view data from a table based on a specific criterion
 - a. Form
 - b. Query
 - c. Macro



d. Report

		h)	This key that uniquely identifies each record is called:	
			a. Primary Key	
			b. Key Record	
			c. Unique Key	
			d. Field Name	
		i)	The overall description of a database is called	
			a. Data integrity	
			b. Data manipulation	
			c. Database schema	
			d. Data definition	
		j)	It is possible to perform Views in SQL	
			a. True	
			b. false	
		k)	What is data dictionary?	
		1)	Define attribute in DBMS	
		m)	Foreign key is also known by referential integrity.	
			a. True	
			b. false	
		n)	Why super key is used in database?	
Atter	npt	any	four questions from Q-2 to Q-8	
Q-2			Attempt all questions	(14)
	A		List out and explain advantages of DBMS.	07
	В		Sketch out and explain the architecture of DBMS.	07
Q-3			Attempt all questions	(14)
	A		Sketch out ER Diagram for railway reservation system.	07
	В		Explain generalization and specialization.	07
Q-4			Attempt all questions	(14)
	A		Sketch out ER Diagram for E-commerce system.	07
	В		Explain any two fundamental relational algebra operation with suitable example.	07
Q-5			Attempt all questions	(14)
Q s	A		Discuss 1NF and 2NF with suitable example.	07
	В		Describe transaction with suitable properties.	07
Q-6			Attempt all questions	(14)
∀ ∪	A		Discuss 3NF and BCNF with suitable example.	07
	В		What is deadlock? Explain two-phase commit protocol.	07
Q-7			Attempt all questions	(14)
~ '	A		List out and explain the steps for query processing.	07
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	В	Explain Hierarchical data model and network model.	07
Q-8	A	Attempt all questions Write a short note on Meta data & computing join.	(14) 07
	В	What is a checkpoint in DBMS? And when does checkpoint occur in DBMS?	07

