Enrollment No: _____   Exam Seat No:_____

C. U. SHAH UNIVERSITY
Summer Examination-2020

Subject Name : Database Management System

Subject Code : 4TE03DMS1   **Branch: B.Tech (CE)**

Semester : 3   **Date : 07/03/2020**   **Time : 02:30 To 05:30**   **Marks : 70**

Instructions:
  (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  (2) Instructions written on main answer book are strictly to be obeyed.
  (3) Draw neat diagrams and figures (if necessary) at right places.
  (4) Assume suitable data if needed.

Q-1		**Attempt the following questions:**	**(14)**
	a)	Select * from item. What type of statement is this? a) DML b) DDL c) View d) Integrity constraint	1
	b)	Select _____ name from student; Here which of the following displays the unique values of the column? a) All b) From c) Distinct d) Name	1
	c)	………. command can be used to modify a column in a table a) alter b)update c) set d) create	1
	d)	By default, the order by clause lists items in _____ order. a) Descending b) Any c) Same d) Ascending	1
	e)	The intersection operator is used to get the _____ tuples. a) Different b) Common c) All d) Repeating	1
	f)	……………… table store information about database or about the system. a) SQL b) Nested c) System d) None of these	1
	g)	What is data?	1
	h)	What is check constraint?	1
	i)	What is domain?	1
	j)	Define function in terms of DBMS.	1
	k)	What is trigger?	1
	l)	What is primary key?	1
	m)	Define specialization in terms of DBMS.	1
	n)	Define candidate key.	1

Attempt any four questions from Q-2 to Q-8

Q-2		**Attempt all questions**	**(14)**
	(a)	What is DBMS? Explain DBMS with application.	**7**
	(b)	Write a short note on hierarchical model.	**7**
Q-3		**Attempt all questions**	**(14)**
	(a)	Explain different functions and responsibilities of DBA.	**7**
	(b)	Explain E-R Diagram with different symbol.	**7**

Q-4		**Attempt all questions**	**(14)**
	(a)	Write a note on relational algebra with notation.	**7**
	(b)	What is DDL? Explain any two DDL command with suitable Example.	**7**
Q-5		**Attempt all questions**	**(14)**
	(a)	Explain cursor with suitable example.	**7**
	(b)	Explain BCNF.	**7**
Q-6		**Attempt all questions**	**(14)**
	(a)	Explain referential integrity constraint with proper example.	**7**
	(b)	Explain two phase commit protocol.	**7**
Q-7		**Attempt all questions**	**(14)**
	(a)	Write a note on different deadlock condition.	**7**
	(b)	Explain two phase locking protocol	**7**
Q-8		**Attempt all questions**	**(14)**
	(a)	Explain query optimization with proper step.	**7**
	(b)	Write a note on Functional Dependency	**7**