Seat No.:	Enrolment No.

Subject Code: 3330703

Subject Name: Database Management System

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering – SEMESTER – 3 (OLD) – EXAMINATION – Winter-2022

		02:30 PM TO 05:00 PM Total Marks: 7	70
Ins	structi 1. 2. 3. 4. 5.	Attempt all questions. Make Suitable assumptions wherever necessary. Figures to the right indicate full marks. Use of programmable & Communication aids are strictly prohibited. Use of non-programmable scientific calculator is permitted. English version is authentic.	
Q.1		Answer any seven out of ten. દશમાંથી કોઇપણ સાતના જવાબ આપો.	14
	1. 9.	2 0	
	2. ૨.	. ¬ *	
	3. 3.		
	4. 8.	, ,	
	5. Ч.	. 5	
	6. §.	1	
	7. 9.	2	
	8. ८.		
	9. E.	31 3	
	10 ૧૦	1 3	
Q.2 પ્રશ્ન. ર	(a) (અ	<u> </u>	03 •3
	(a)		03
	(અ	.) DBMS ના ફાયદા લખો. કોઇપણ બે વિસ્તારથી સમજાવો.	03
	(b) (બ	2.2	03 •3
		OR	
	(b)) Differentiate DA and DBA.	03

Date: 03-03-2023

	(બ)	DA અને DBA ના તફાવતો લખો.	оЗ
	(c) (s)	Explain client – server database system. Client – server database system વિસ્તારથી સમજાવો.	04 • ४
	(c) (s)	OR Explain distributed database system in detail. Distributed database system વિસ્તારથી સમજાવો.	04 ov
	(d) (S)	Explain any four advantages of DBMS. DBMS ના કોઈપણ યાર ફાયદા સમજાવો.	04 • ४
		OR	
	(d) (S)	Explain physical data independence. Physical data independence સમજાવી.	04 08
Q.3 પ્રશ્ન. 3	(a) (신)	Explain ALTER command for ADD and MODIFY scheme with example. ALTER command ADD અને MODIFY scheme માટે ઉદાહરણ સાથે સમજાવો.	03 •3
	(a) (અ)	OR Explain DELETE, DROP and TRUNCATE command with example. DELETE, DROP and TRUNCATE command ઉદાહરણ આપી સમજાવો	03 •3
	(b) (U)	Explain LIKE operator with example. LIKE operator ઉદાહરણ આપી સમજાવો.	03 o3
		OR	
	(b) (မ)	Explain BETWEEN operator with example. BETWEEN operator ઉદાહરણ આપી સમજાવો	03 •3
	(c)	Explain Group by clause with example.	04
	(ક)	Group by clause ઉદાહરણ આપી સમજાવો	०४
		OR	0.4
	(c) (s)	Explain data types of DBMS. DBMS ના ડેટા ટાઇપ સમજાવો.	04 08
	(d) (S)	Explain Sub queries concept with example. Sub queries ઉદાહરણ સાથે સમજાવો.	04 იჯ
		OR	
	(d) (S)	Explain given functions with example: SUBSTR, ASCII, FLOOR, MOD આપેલ functions માટે ઉદાહરણ આપી સમજાવો: SUBSTR, ASCII, FLOOR, MOD	04 •¥
Q.4 પ્રશ્ન. ૪	(a) (신)	What is correlated subquery? Explain with example. Correlated subquery શું છે? ઉદાહરણ આપી સમજાવો.	03 •3
		OR	
	(a) (ਅ)	Differentiate between primary key and unique key. Primary key અનેunique key વચ્ચેના તફાવતો લખો.	03 03
	(b) (မ)	Explain Check constraint with example. Check constraint ઉદાહરણ સાથે સમજાવો	04 იჯ
		OR	
	(b) (မ)	Draw and explain different symbols of E-R diagram. E-R diagram માટે વિવિધ symbols દોરીને સમજાવો.	04 • ४
	(c)	Consider following table and solve given queries: EMP(emp_no, emp_name, desg, salary, deptno)	07

	(5)	(1) Create table EMP. (2) Display information of all employees whose name starts with 'p' (3) Display department wise salary total. (4) Add new column email_id in EMP table. નીચેનુ ટેબલ ધ્યાને લઇ અને આપેલી ક્વેરી ના ઉકેલ શોધો: EMP(emp_no, emp_name, desg, salary, deptno) (1) Create table EMP. (2) Display information of all employees whose name starts with 'p' (3) Display department wise salary total. (4) Add new column email_id in EMP table.	၀၅
Q.5 પ્રશ્ન. પ	(a) (અ)	Draw E-R diagram of Hospital Management System Hospital Management Systemની E-R diagram દીરો.	04 • ४
	(b) (식)	Define followings: (1) Domain (2) Super Key (3) Relational Algebra નીયેના ની વ્યાખ્યા આપો: (1) Domain (2) Super Key (3) Relational Algebra	04 • ४
	(c) (s)	Explain Not Null constraint. Not Null constraint સમજાવી.	03 •3
	(d) (S)	Write short note on Generalization. Generalization પર ટૂંક નોંધ લખો.	03 •3
