

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Semester -III Remedial Examination April - 2010****Subject code: 330703****Subject Name: Data Base Management System****Date: 23 /04 /2010****Time: 03.00 pm – 05.30 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version Authentic

Q.1	List and explain CODD's 12 rules for RDBMS in details	14
Q.2	(a) Explain ANSI/SPARC model	07
	(b) List out data models. Explain any one of them	07
	OR	
Q.3	(b) Explain ER diagram using suitable example	07
	(a) Write a short note on DBA	07
	(b) Why DBMS approach is better than file oriented approach	07
	OR	
Q.3	(a) Explain components of DBMS	07
	(b) List out types of database system. Explain any two of them	07
Q.4	(a) Explain set operation using example	07
	(b) Explain the following SQL functions	
	(I) SUM	01
	(II) USER	02
	(III) SUBSTRING	02
	(IV) ADD_MONTH	02
	OR	
Q. 4	(a) Explain different types of join	07
	(b) Explain the following SQL functions	
	(I) AVG	01
	(II) UID	02
	(III) ROUND	02
	(IV) NEXT_DAY	02
Q.5	(a) What is report? Explain its basic commands	07
	(b) Solve SQL queries for following database STUD_DATA(enroll , name , doj , batchcode)	
	(I) Add primary key constraint on enroll column	02
	(II) Display student details whose name contains 'K' letter	02
	(III) Display batch code and total no. of students in the batch	03
	OR	
Q.5	(a) Discuss integrity constraints available in SQL	07
	(b) Solve SQL queries for following database PAYMENT(rcptno , enroll , amount , paydate)	
	(I) Display constraints information of above database	02
	(II) Display all payments made in the month of November, 2009	02
	(III) Display total amount paid on each day	03

પ્રશ્ન-૧	CODD's 12 rules for RDBMS સમજાવો	14
પ્રશ્ન-૨	અ. ANSI/SPARC model સમજાવો	07
	બ. જુદા જુદા data models યાદી બનાવી કોઇપણ એક સમજાવો	07
	અથવા	
	બ. ઉદાહરણ આપીને ER diagram સમજાવો	07
પ્રશ્ન-૩	અ. ટ્રંકનોંધ લખો: DBA	07
	બ. શા માટે DBMS approach , file oriented approach કરતા સારો છે?	07
	અથવા	
પ્રશ્ન-૩	અ. DBMS ના components સમજાવો	07
	બ. જુદા જુદા database systems યાદી બનાવી કોઇપણ બે સમજાવો	07
પ્રશ્ન-૪	અ. ઉદાહરણ આપીને set operation સમજાવો	07
	બ. નીચેના SQL functions સમજાવો	
	(I) SUM	01
	(II) USER	02
	(III) SUBSTRING	02
	(IV) ADD_MONTH	02
	અથવા	
પ્રશ્ન-૪	અ. જુદા જુદા join સમજાવો	07
	બ. નીચેના SQL functions સમજાવો	
	(I) AVG	01
	(II) UID	02
	(III) ROUND	02
	(IV) NEXT_DAY	02
પ્રશ્ન-૫	અ. Report શું છે? તેના બેજુક ક્રમાંક સમજાવો	07
	બ. નીચેના database માટે SQL Queries લખો	
	STUD_DATA(enroll , name , doj , batchcode)	
	(I) Add primary key constraint on enroll column	02
	(II) Display student details whose name contains 'K' letter	02
	(III) Display batch code and total no. of students in the batch	03
	અથવા	
પ્રશ્ન-૫	અ. Data integrity સમજાવો	07
	બ. નીચેના database માટે SQL Queries લખો	
	PAYMENT(rcptno , enroll , amount , paydate)	
	(I) Display constraints information of above database	02
	(II) Display all payments made in the month of November, 2009	02
	(III) Display total amount paid on each day	03
