Seat No.:_____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING– SEMESTER –4 (NEW) EXAMINATION – WINTER-2020

Subject Code:3340701   **Date:10-02-2021**
Subject Name:Advanced Database Management System
Time:02:30 PM TO 04:30 PM   **Total Marks:56**
Instructions:
1. **Attempt any FOUR Questions from Q.1 toQ.5.**
2. **Make Suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Use of programmable & Communication aids are strictly prohibited.**
5. **Use of only simple calculator is permitted in Mathematics.**
6. **English version is authentic.**

Q.1   Answer any seven out of ten. દશમાંથી કોઇપણ સાતના જવાબ આપો.   **14**

1. Explain raw level and table level lock.
૧. raw level and table level lock સમજાવો.

2. Explain GRANT AND REVOKE command.
૨. GRANT AND REVOKE command સમજાવો

3. What is named exception?
૩. named exception શું છે?

4. What is package?
૪. package શું છે?

5. Differentiate before and after trigger.
૫. before and after trigger વચ્ચેનો તફાવત સમજાવો.

6. What is cursor?
૬. cursor શું છે?

7. What is functional dependency?
૭. Functional dependency શુંછે?

8. Define: Normalization.
૮. Normalization ની વ્યાખ્યા આપો.

9. What is transaction?
૯. transaction શુંછે?

10. What is trivial and non trivial dependency?
૧૦. trivial અને non trivial dependency શુંછે?

Q.2	(a)	Explain types of LOCK.	**03**
પ્રશ્ન. ૨	(અ)	Types of LOCK સમજાવો.	૦૩

OR

	(a)	Explain commit, rollback and savepoint commands.	**03**
	(અ)	commit, rollback and savepoint commands સમજાવો.	૦૩
	(b)	Explain levels of locks.	**03**
	(બ)	levels of locks સમજાવો.	૦૩

OR

	(b)	Explain Synonym with example.	**03**

	(બ)	Synonym ઉદાહરણ આપી સમજાવો.	૦૩
	(c)	What is view? Explain view with example.	04
	(ક)	View શું છે? View ઉદાહરણ આપી સમજાવો.	૦૪

OR

	(c)	What is sequence? Explain with example.	04
	(ક)	sequence શું છે? sequence ઉદાહરણ આપી સમજાવો.	૦૪
	(d)	What is Index? Explain Index with example.	04
	(ડ)	Index શું છે? Index ઉદાહરણ આપી સમજાવો.	૦૪

OR

	(d)	Explain types of Indexes.	04
	(ડ)	જુદા જુદા પ્રકારની Indexes સમજાવો.	૦૪

Q.3	(a)	Explain generic PL/SQL block.	**03**
પ્રશ્ન. 3	(અ)	generic PL/SQL block સમજાવો.	૦૩

OR

	(a)	Explain variables in PL/SQL.	03
	(અ)	variables in PL/SQL સમજાવો.	૦૩
	(b)	Explain if else statement in PL/SQL.	03
	(બ)	PL/SQL માં if else statement સમજાવો.	૦૩

OR

	(b)	Explain WHILE loop in PL/SQL.	03
	(બ)	PL/SQL માં WHILE loop સમજાવો.	૦૩
	(c)	Explain parameterized cursor with example.	04
	(ક)	Parameterized cursor ઉદાહરણ આપી સમજાવો.	૦૪

OR

	(c)	Explain different attributes of cursor with example.	04
	(ક)	Different attributes of cursor ઉદાહરણ આપી સમજાવો.	૦૪
	(d)	Explain different types of Exceptions.	04
	(ડ)	જુદા જુદા પ્રકારના Exceptions સમજાવો.	૦૪

OR

	(d)	What is trigger? Explain advantages of using trigger. Give the difference between trigger and procedure.	04
	(ડ)	Trigger શું છે? Trigger ના ફાયદા સમજાવો. Trigger અને procedure વચ્ચે નો તફાવત સમજાવો.	૦૪

Q.4	(a)	Explain 1NF with example.	**03**
પ્રશ્ન. ૪	(અ)	1NF ઉદાહરણ આપી સમજાવો.	૦૩

OR

	(a)	Explain Functional Dependency and fully Functional Dependency with example.	03
	(અ)	Functional Dependency and fully Functional Dependency ઉદાહરણ આપી સમજાવો.	૦૩
	(b)	What is decomposition? Explain non loss decomposition.	04
	(બ)	Decomposition શું છે? non loss decomposition સમજાવો..	૦૪

OR

	(b)	Explain Functional Dependency Diagram.	04
	(બ)	Functional Dependency Diagram સમજાવો.	૦૪

	(c)	Explain 2NF and 3NF with example.	**07**
	(ક)	2NF and 3NF ઉદાહરણ આપી સમજાવો.	૦૭
Q.5	(a)	Explain functions in PL/SQL.	**04**
પ્રશ્ન. ૫	(અ)	Functions in PL/SQL સમજાવો.	૦૪
	(b)	Explain Transaction Log in detail .	**04**
	(બ)	Transaction Log ઊંડાણથી સમજાવો.	૦૪
	(c)	Explain time stamp method of concurrency control.	**03**
	(ક)	time stamp method of concurrency control સમજાવો.	૦૩
	(d)	Explain structure of package.	**03**
	(ડ)	structure of package સમજાવો.	૦૩

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