

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA ENGINEERING – SEMESTER – VI• EXAMINATION – SUMMER 2016**

**Subject Code: 340704****Date: 20/05/2016****Subject Name: Relational Database Management System****Time: 10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
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.

<b>Q.1</b>	(a)	Explain attributes of cursor.	<b>07</b>
<b>પ્રશ્ન. ૧</b>	અ	Cursor ની attributes સમજાવો.	<b>07</b>
	(b)	What is Indexing? Explain advantages of indexing. Explain different types of index.	<b>0૭</b>
	બ	Indexing શું છે? Indexing ની ફાયદા સમજાવો. જુદા જુદા પ્રકારની index સમજાવો.	<b>૦૭</b>
<b>Q.2</b>	(a)	What is shared lock and exclusive locks? Explain deadlock in detail.	<b>07</b>
<b>પ્રશ્ન. ૨</b>	અ	shared lock અને exclusive locks શું છે? Deadlock સમજાવો.	<b>07</b>
	(b)	Explain exception handling with example.	<b>૦૭</b>
	બ	exception handling ઉદાહરણ આપી સમજાવો.	<b>૦૭</b>
<b>OR</b>			
	(b)	Explain while loop in PL/SQL.	<b>07</b>
	બ	PL/SQL માં while loop સમજાવો.	
<b>Q.3</b>	(a)	Explain different types of triggers.	<b>07</b>
<b>પ્રશ્ન. ૩</b>	અ	જુદા જુદા પ્રકારની triggers સમજાવો.	<b>07</b>
	(b)	Explain non loss decomposition.	<b>૦૭</b>
	બ	Non loss decomposition સમજાવો.	<b>૦૭</b>
<b>OR</b>			
<b>Q.3</b>	(a)	Explain create trigger with example.	<b>07</b>
<b>પ્રશ્ન. ૩</b>	અ	create trigger ઉદાહરણ આપી સમજાવો.	<b>07</b>
	(b)	Explain functional dependency and full functional dependency with example.	<b>૦૭</b>
	બ	Functional dependency અને full functional dependency ઉદાહરણ આપી સમજાવો.	<b>૦૭</b>
<b>Q.4</b>	(a)	Explain 4NF with example.	<b>07</b>
<b>પ્રશ્ન. ૪</b>	અ	4NF ઉદાહરણ આપી સમજાવો.	<b>07</b>
	(b)	Explain three problems of concurrency control.	<b>૦૭</b>

	બ	Concurrency control ની ત્રણ પ્રકારની problems સમજાવો.	0૭
		OR	
<b>Q.4</b>	(a)	Explain 5NF with example.	07
<b>પ્રશ્ન. ૪</b>	અ	5NF ઉદાહરણ આપી સમજાવો.	07
	(b)	Explain time stamp method for concurrency control.	0૭
	બ	Time stamp method for concurrency control સમજાવો.	0૭
<b>Q.5</b>	(a)	Explain forward and backward recovery.	07
<b>પ્રશ્ન. ૫</b>	અ	Forward અને backward recovery સમજાવો.	07
	(b)	Explain discretionary access control.	0૭
	બ	Discretionary access control સમજાવો.	0૭
		OR	
<b>Q.5</b>	(a)	Explain checkpoints for recovery.	07
<b>પ્રશ્ન. ૫</b>	અ	checkpoints for recovery સમજાવો	07
	(b)	What is firewall? Explain different types of firewalls.	0૭
	બ	Firewall શું છે? જુદા જુદા પ્રકારની firewall સમજાવો.	0૭

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