

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-IV • EXAMINATION – SUMMER 2013****Subject Code: 340704****Date: 10-06-2013****Subject Name: Relation Data Base Management System****Time: 10:30 am - 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. English version is considered to be Authentic.

- Q.1** (a) What is PL/SQL? Explain the advantage of PL/SQL. **07**
(b) What is Cursor? Explain the types of cursor attributes with example. **07**
- Q.2** (a) Explain Atomicity with its examples. **07**
(b) Explain Transaction and write about ACID test. **07**
- OR**
- (b) Write PL/SQL code block to find out the factorial value using function. **07**
- Q.3** (a) Define package. Write steps to create package in PL/SQL. **07**
(b) What is Trigger? Explain the types of database trigger with example. **07**
- OR**
- Q.3** (a) What is Normalisation? Explain 1NF, 2NF, 3NF with suitable Example. **07**
(b) Explain about Exception in PL/SQL block with example. **07**
- Q.4** (a) What is Decomposition? Explain the Lossy Decomposition and Lossless join Decomposition with example. **07**
(b) Explain Index and View in database. **07**
- OR**
- Q.4** (a) What is Locking? Explain the types of Locks with example in detail. **07**
(b) What is Functional Dependency? Draw the Functional Dependency Diagram by giving the example and also compare it with Full Functional Dependency. **07**
- Q.5** (a) Discuss the different types of transaction failures that may occur in database environment. **07**
(b) What is Firewall? Explain the different techniques that used in Database Security. **07**
- OR**
- Q.5** (a) What is Data Encryption? Explain in detail. **07**
(b) Explain immediate update and differed update recovery techniques. **07**

પ્રશ્ન-૧	અ	PL/SQL શું છે? PL/SQL ના ફાયદા સમજાવો.	07
	બ	Cursor શું છે? cursor attributes ની types ઉદાહરણ આપી સમજાવો.	07
પ્રશ્ન-૨	અ	Atomicity ઉદાહરણ આપી સમજાવો.	07
	બ	Transaction અને ACID test સમજાવો.	07
		અથવા	
	બ	Factorial value શોધવા માટેનો PL/SQL code block function નો ઉપયોગ કરીને લખો.	07
પ્રશ્ન-૩	અ	Package ની વ્યાખ્યા આપો. PL/SQL માં package create કરવા માટે steps લખો.	07
	બ	Trigger શું છે? database trigger ના વિવિધ પ્રકાર ઉદાહરણ આપી સમજાવો.	07
		અથવા	
પ્રશ્ન-૩	અ	Normalisation શું છે? 1NF, 2NF, 3NF ઉદાહરણ આપી સમજાવો.	07
	બ	PL/SQL block માં Exception વિશે ઉદાહરણ આપી સમજાવો.	07
પ્રશ્ન-૪	અ	Decomposition શું છે? Lossy Decomposition and Lossless join Decomposition ઉદાહરણ આપી સમજાવો..	07
	બ	Database માં Index અને View સમજાવો.	07
		અથવા	
પ્રશ્ન-૪	અ	Locking શું છે? Locks ના પ્રકાર ઉદાહરણ આપી વિગતમાં સમજાવો.	07
	બ	Functional Dependency શું છે? કોઈ ઉદાહરણ લઈ Functional Dependency નો Diagram દોરો અને એને Full Functional Dependency સાથે compare કરો.	07
પ્રશ્ન-૫	અ	database environment ની transaction failures ની types વિગતવાર સમજાવો.	07
	બ	Firewall શું છે? Database Security ની વિવિધ techniques સમજાવો.	07
		અથવા	
પ્રશ્ન-૫	અ	Data Encryption વિગતવાર સમજાવો.	07
	બ	Immediate update અને differed update recovery techniques સમજાવો.	07
