

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER– III EXAMINATION – WINTER - 2017

Subject Code:3630009

Date: 06-01-2018

Subject Name: Procedure Programming in SQL

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.

Q.1 (a) Describe the advantages of PL/SQL. Also explain the Generic Block of PL/SQL. **07**

(b) What do you mean by Cursor? Explain various types of Cursors in detail with example. **07**

Q.2 (a) What do you mean by Lock? Explain types and level of Locks. **07**

(b) What is Index? Describe the Address field in the Index with example. **07**

OR

(b) What is Sequence? Describe various keywords and parameters used in sequence. **07**

Q.3 (a) Answer the following question. **07**

- i. Explain PL/SQL Execution Environment.
- ii. Discuss the data types of PL/SQL.

(b) Write a Short Note on: **07**

- i. Cursor FOR Loops.
- ii. Parameterized Cursor.

OR

Q.3 (a) Explain Hierarchical Query & Top N queries with example. **07**

(b) What is Error Handling in PL/SQL? Describe Oracle's named exception handlers with example. **07**

Q.4 (a) Describe the steps to execute a procedure or function. Explain advantages of Using a procedure or function. **07**

(b) What do you mean by Oracle Package? Explain the components of an Oracle Package with example. **07**

OR

Q.4 (a) Write a Short Note on: **07**

- i. Overloading procedure and function.
- ii. Object types.

(b) What is Trigger? Explain various types of Triggers in detail with example. **07**

Q.5 (a) Explain Index by table and nested table in detail with example **07**

(b) (Assume Table book_detail(book_id, book_name, category))
Write a PL/SQL block using cursor for computing category wise total no. of books in library. **07**

OR

Q.5 (a) What is Varray? Describe: How can we create Varray in PL/SQL with example? **07**

(b) Write a trigger that will stop the user to enter negative value in salary field of Employee table. **07**
