

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER – III • EXAMINATION – WINTER - 2016

Subject Code: 3630009

Date: 09/01/2017

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) Identify True or false and Justify. 07

- a. Trigger can execute explicitly when triggering event happen.
- b. The datatype '%type' is used to define record structure in PL/SQL.
- c. The data dictionary 'user_source' is used to see code of any object in PL/SQL.
- d. Exception can occur in declarative, execution and exception section of PL/SQL block.
- e. Package can have parameters defined.
- f. Commit and Rollback statements not allowed in trigger.
- g. SQL%found is the explicit cursor attribute.

(b) What is Exception? Discuss user defined and pre-defined Exceptional handling types giving example. 07

Q.2 (a) Do as directed. 07

. (Assume table EMP(empno, name, salary, gender, deptno)

- i. Write a procedure which print all records of employee whose salary is greater than 20,000.
- ii. Discuss Cursor For loop giving example.

(b) Attempt the following questions: 07

- i. What is difference between local function and stored function? Discuss with example.
- ii. Explain concept of sequence giving example.

OR

(b) Answer in brief. 07

- i. Explain concept of hierarchical queries giving example.
- ii. Explain Decode method giving example.

Q.3 (a) Attempt the following questions 07

- i. Explain Iterative Control structure (while loop and For loop) with example.
- ii. Explain PL/SQL transactions in detail.

(b) Write a PL/SQL block to print student name in format : 07

Note: Input first name, middle name and last name from user.

- i. Puja S. Shah
- ii. P.S.Shah
- iii. PSS

OR

Q.3 (a) Attempt the following questions 07

- i. Discuss Advantages of PL/SQL and show execution environment of PL/SQL with diagram.
- ii. What is cursor? Discuss explicit cursor giving example.

(b) Assume table EMP(empno, name, salary, gender, deptno) 07

Write a PL/SQL function to count total number of employees gender wise.

Q.4 (a) Explain concept of view giving example. 07

(b) Explain Index by table in collection method giving example. 07

OR

Q.4 (a) Explain package concept with example. 07

(b) Write a trigger which allows only insertion in employee table whose name starts with 'P'. 07

Q.5 (a) Explain database trigger concept with example. 07

(b) What is collection? Explain Varray method giving example. 07

OR

Q.5 (a) Write a trigger which do not allow insertion or updation on EMP table if day is Sunday. 07

(b) Explain concept of index in PL/SQL. 07
