

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –III EXAMINATION –SUMMER-2019

Subject Code: 3630009

Date: 27-05-2019

Subject Name: Procedure Programming in SQL

Time: 02.30 pm to 5.00 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) Attempt the following questions **07**

- i. What is cursor? Differentiate between implicit and explicit cursor.
- ii. List pre-defined and users defined exceptions and discuss any one of it.

(b) Attempt the following questions: **07**

- i. Give usage of %type datatype in PLSQL.
- ii. List dictionary to view the user defined constraints.
- iii. Give uses of %rowtype datatype in PLSQL.
- iv. What is one line difference between procedure and function.
- v. Give any three advantages of using PLSQL.
- vi. List various types of triggers.
- vii. Give one advantage of using package.

Q.2 (a) Explain Cursor For loop giving example. **07**

(b) Write a PLSQL block to print multiplication table of given number. **07**

OR

(b) Explain implicit cursor giving example. **07**

Q.3 (a) What is view? Discuss its concept. **07**

(b) Discuss the concept of Decode statement giving example. **07**

OR

Q.3 (a) What is sequence? Discuss its concept giving example. **07**

(b) What is Varray? Discuss its concept giving example. **07**

Q.4 (a) How function is initialized and called? Explain the concept of function giving example. **07**

(b) Assume EMP table (empno, empnm, date_join). Write a trigger which will not allow to insert record whose name starts with uppercase. **07**

OR

Q.4 (a) Write a PLSQL function to swap two numbers. **07**

Q.4 (b) Explain the concept of :OLD and :NEW qualifier in trigger giving example. **07**

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| Q.5 | (a) What is package? Explain the concept of package giving example. | 07 |
| | (b) Assume table EMP(empno, name, salary). Write a procedure which will print salary of employee which lies between 5000 to 15000. | 07 |

OR

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|------------|--|-----------|
| Q.5 | (a) Assume the STUD table (rollno, name, marks1, marks2, marks3). Write a PLSQL procedure which will read marks of three subject and print sum in called function. | 07 |
| | (b) Explain the concept of Commit, Rollback and Savepoint. | 07 |
