# GUJARAT TECHNOLOGICAL UNIVERSITY
## MCA - SEMESTER– III EXAMINATION – WINTER 2018

**Subject Code: 3630009**                                          **Date: 11-01-2019**

**Subject Name:  Procedure Programming in SQL**

**Time: 10.30 am to 1.00 pm**                          **Total Marks: 70**

**Instructions:**
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

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|---|---|---|---|
| **Q.1** | **(a)** | Answer the following question. | **07** |
| | | i. What is Index? | |
| | | ii. How can we use %rowtype? | |
| | | iii. How can we use comment in PL/SQL? | |
| | | iv. _____ method is used to displayed message to the user on the VDU screen. | |
| | | v. What is the use of GOTO statement? | |
| | | vi. The data stored in a Cursor is called _____. | |
| | | vii. Packages allow overloading of Procedure and Function. (True/False) | |
| | **(b)** | Discuss Sequence with its keywords and parameters with example. | **07** |
| | | | |
| **Q.2** | **(a)** | What do you mean by PL/SQL? Describe the Generic PL/SQL Block in detail. | **07** |
| | **(b)** | Write a short note on: Running sum & Decode. | **07** |
| | | **OR** | |
| | **(b)** | Explain Iterative Control Structure used in PL/SQL in detail with example. | **07** |
| | | | |
| **Q.3** | **(a)** | What is Cursor? Explain various types of Cursor with example. | **07** |
| | **(b)** | Explain Cursor for loops and Parameterized Cursors. | **07** |
| | | **OR** | |
| **Q.3** | **(a)** | What is Lock? Explain different level of Lock in detail with example. | **07** |
| | **(b)** | How Exception Handling can work with Oracle Engine? Discuss Oracle's Predefined Exception Handlers. | **07** |
| | | | |
| **Q.4** | **(a)** | WORKER(workerid, name, wage_per_hour, specialized_in, manager_id) Write a procedure to display top five highest paid workers who are specialized in "PAINTING". | **07** |
| | **(b)** | Differentiate Procedure and Function. Also discuss the advantages of using Procedure or Function. | **07** |
| | | **OR** | |
| **Q.4** | **(a)** | What do you mean by Package? Describe various components of a Package in detail with example. | **07** |
| | **(b)** | Discuss Overloading Procedure and Function with benefits of Overloading. | **07** |
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| **Q.5** | **(a)** | What do you mean by Trigger? Explain various types of Trigger used in PL/SQL with example. | **07** |
| | **(b)** | Write a database trigger to check that joining_date field is not empty and also check that the joining_date should be greater than birthdate field in the employee table. | **07** |
| | | **OR** | |
| **Q.5** | **(a)** | What is the use of Varray in PL/SQL? How can we declare Varray in PL/SQL? Explain it in detail. | **07** |
| | **(b)** | Write a short note on: Save Point, Commit and Rollback. | **07** |

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