

Name:  
Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, May 2021**

**Course: BCA (IOT/BFSI)**  
**Program: PL/SQL Fundamentals**  
**Course Code: CSBC1006**

**Semester: II**  
**Time 03 hrs.**  
**Max. Marks: 100**

**SECTION A**

1. Each Question will carry 5 Marks
2. Instruction: Write short answer

| S. No. |   | Marks | CO  |
|--------|---|-------|-----|
| Q 1    | List Oracle 12c focus areas.  | 5     | CO1 |
| Q2     | What is returned by the cursor attribute<br>SQL%ROWCOUNT<br>SQL%FOUND<br>SQL%NOTFOUND | 5     | CO2 |
| Q3     | Differences between anonymous blocks and subprograms.                                 | 5     | CO3 |
| Q4     | Demonstrate PLSQL code to Fetching Data from the Cursor                               | 5     | CO3 |
| Q5     | List PL/SQL offers for string variable declaration long with example.                 | 5     | CO1 |
| Q6     | Differentiate PL/SQL Records and Collections  | 5     | CO2 |

**SECTION B**

1. Each question will carry 10 marks
2. Instruction: Write short / brief notes

|     |  |    |     |
|-----|--|----|-----|
| Q 7 | Elaborate on PL/SQL Runtime Architecture with proper diagram.  | 10 | CO1 |
| Q8  | Explain with example how we can make changes to database tables by using 4 type of DML commands through PLSQL code   | 10 | CO1 |
| Q9  | Using implicit cursor update the salary by an increase of 15% for all the records in EMPLOYEES table, and finally display how many records have been updated. If no records exist display the message None of the salaries were updated. | 10 | CO2 |

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|  |   |              |            |
| <b>Q10</b>   | How can we trap internally predefined exceptions in PL/SQL. Explain in block diagram & code.  | <b>10</b>    | <b>CO2</b> |
| <b>Q11</b>   | <p>Demonstrate PL/SQL program to display the description against a grade using CASE statement.</p> <p style="padding-left: 40px;">A outstanding<br/>B Excellent<br/>C Very Good<br/>D Average<br/>E Poor</p> <p style="text-align: center;"><b>OR</b></p> <p>Demonstrate through PLSQL code to change location in Dept table from Delhi to Kanpur for those all employee having dept_id less then 100. Use appropriate control statements, cursor &amp; its attribute.</p>  | <b>10</b>    | <b>CO3</b> |
| <b>SECTION-C</b>   |   |              |            |
| <p><b>1. Question (a) and (b) carries 10 Marks each.</b></p> <p><b>2. Instruction: Part (b) has a choice question. Attempt any one question from part (b).</b></p> |   |              |            |
| <b>Q12</b>   | <p>A. Using explicit cursor Insert the records from DEPT table for the columns dept_id, Dept_name and location for those records whose location DELHI and KANPUR into a new table TEMP_DEPT. Create PLSQL function for this activity</p> <p>B. Elaborate on usage function &amp; procedure in different scenario.</p> <p style="text-align: center;"><b>OR</b></p> <p>A. Write a PL/SQL block to retrieve the names of Employee from the EMP Table and print each employee name on the screen incorporating associative arrays.</p> <p>B. Demonstrate Cursor FOR Loops Using Subqueries with example. List different Explicit Cursor Attributes</p> | <b>10+10</b> | <b>CO3</b> |