

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: PL SQL and DBA
Program: BCA
Course Code: CSBC2009

Semester: 4th
Time 03 hrs.
Max. Marks: 100

Instructions:

SECTION A (All Questions Are Compulsory)

S. No.	Question	Marks	CO
Q 1	Explain the five difference between PL/SQL and SQL.	4	CO1
Q 2	What are the 3 modes of parameter passing in functions and procedures?	4	CO2
Q 3	When a DML statement is executed, in which cursor attributes, the outcome of the statement is saved?	4	CO3
Q 4	Write the name of four predefined exception. Also explain them.	4	CO4
Q 5	What is cursor? Explain the different types of cursors. (don't write any code)	4	CO5


SECTION B (All Questions Are Compulsory)

Q 6	What are the different datatypes available in PL/SQL? Explain in detail.	10	CO1
Q 7	What are collections? Explain the different types of collections available in PL/SQL	2+8	CO2
Q 8	Write a PL/SQL program to create a two column table. Further write a PL/SQL code to calculate factorial of the number entered by the user and store the number and its factorial in the same table.	4+6	CO3
Q 9	Write a PL/SQL code to update table Employee by increase in salary by 5000 and by using the concept of implicit cursor find the total number of rows updated.	10	CO5
	OR		CO4
	With the help of a program, explain the process of handling of user defined exceptions.		

SECTION-C (All Questions Are Compulsory)

Q 10	Explain the different types of CASE statements available in PL/SQL. Write two PL/SQL programs to explain the difference between different variants of CASE statement.	[5+7.5 +7.5]= 20	CO1, CO2
Q11	What are triggers? Explain its syntax. Write a trigger on the employee table which shows the old values and new values of employee name after any update on employee name on Employee table (name, age, address, id).	20	CO3, CO4, CO5
	OR		
	What is package in PL/SQL? Write a PL/SQL code create package specification and body to insert, retrieve, update and delete operations on a student table (name, age,		

address, id).		
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SECTION A (All Questions Are Compulsory)

S. No.	Question	Marks	CO
Q 1	Describe the structure of named PL/SQL block.	4	CO1
Q 2	Write a PL/SQL procedure to reverse a number.	4	CO2
Q 3	Write a PL/SQL code to create a table student having id, name, address field	4	CO3
Q 4	Write a PL/SQL code to handle 'No_data_found' exception	4	CO4
Q 5	When a DML statement is executed, in which cursor attributes, the outcome of the statement is saved?	4	CO5

SECTION B (All Questions Are Compulsory)

Q 6	Explain the syntax of different conditional and iterative statements available in PL/SQL	10	CO1
Q 7	Create a user defined record of books having title, author, subject and id as its elements. Create two objects of books and add the entries. Also display the entries using a user defined procedure.	[2+3+5]=10	CO2
Q 8	Write a PL/SQL program to create a two column table. Further write a PL/SQL code block generate table of a given number entered by user and store result in the same table.	10	CO3
Q 9	What is user defined exception. How can we handle it? Explain in detail. OR Write a trigger on employee table (name, id, address, salary) which will be fired on update of salary and show the difference of two salary	10	CO4 CO5

SECTION-C (All Questions Are Compulsory)

Q 10	What is composite data types? Explain the different composite data types available in PL/SQL in detail.	20	CO1, CO2
Q11	What is cursor? Explain the different types of cursors. Using explicit cursor, write a PL/SQL code to fetch name, id and address of customers from the customer table. OR Write short note on following: (i) Package (ii) Trigger (iii) %Rowtype (iv) %Type	20	CO3, CO4, CO5

