

Reg. No.

--	--	--	--	--	--	--	--	--	--

**BCACAC 158**

**Credit Based Second Semester B.C.A. Degree Examination,  
November/December 2015  
(Common to all Batches)**

**DATABASE CONCEPTS AND ORACLE**

Time : 3 Hours

Max. Marks : 80

**Note : Answer any ten questions from Part A and any one full question from each Unit of Part B.**

**PART – A**

1. a) Define Database Management System. (10×2=20)
- b) Why is Data Definition Language is used ?
- c) What is a recursive relationship ?
- d) What is a NULL value in an attribute ?
- e) What is First Normal Form (1NF) ?
- f) What is a Heap file ?
- g) How do you remove a table ?
- h) When do you use a GROUP BY clause in SQL ?
- i) Name the different arithmetic and logical operators in PL/SQL.
- j) Name any two cursor attributes.
- k) How to declare a constant in PL/SQL ? Give example.
- l) How do display a user-message on the screen in PL/SQL ?

**PART – B**

**UNIT – I**

2. a) Write a note on Database languages.
- b) Explain the different types of attributes.
- c) List and explain the different categories of End users. (5+5+5)
3. a) What is data independence ? Explain.
- b) Compare DBMS approach over traditional file oriented system.
- c) How do you classify DBMS ? Explain. (5+5+5)

P.T.O.



## UNIT – II

4. a) Explain how the RAID technology improves the performance of disk access.  
b) Explain SELECT and PROJECT operation with examples.  
c) What is entity integrity and referential integrity constraints ? Explain with an example. (5+5+5)
5. a) Explain UNION, INTERSECTION of set theory with examples.  
b) Explain the three basic UPDATE operations on relation with examples.  
c) Define the terms domain, attribute, tuple and relation. (5+6+4)

## UNIT – III

6. a) Explain the different faces of SELECT command used in SQL.  
b) Explain any five string functions in SQL with example.  
c) Write a note on data constraints on a table. (5+5+5)
7. a) Consider a table STUDENT(REGNO, NAME, DOB, MARKS1, MARKS2, MARKS3) Write the queries for the following :  
i) Display the structure of the above table.  
ii) List all the students whose MARKS1 between 75 and 80.  
iii) Add a column TOTAL of type NUMBER and size = 3 to the above table.  
iv) Calculate TOTAL and update in to the table.  
v) Remove the records of students whose total marks less than 80.  
b) What is a subquery ? Explain with example.  
c) List and explain any five data types in Oracle. (5+5+5)

## UNIT – IV

8. a) What is a procedure ? How do you create a procedure ? Explain.  
b) Explain the functionality of OPEN, FETCH and CLOSE command in explicit Cursor with syntax.  
c) Explain the conditional statements in PL/SQL. (5+5+5)
9. a) Write a note on Packages.  
b) What are the advantages of procedures and functions ?  
c) What are the different types if triggers ? Explain. (5+5+5)
-