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BCACAC 158

**Credit Based Second Semester B.C.A. Degree Examination,
April/May 2015
(New Syllabus) (2012-2013 Batch Onwards)
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) What is metadata and system catalog ? (10×2=20)
- b) What is a database ?
- c) What is a derived attribute ? Give example.
- d) What is data stripping ?
- e) What is the degree of a relation ?
- f) What is a NULL value in an attribute ?
- g) State with example how to delete a record in SQL.
- h) What is DDL ?
- i) What is a DUAL table in SQL ?
- j) List any two oracle named exceptions.
- k) How to assign a value to a variable in PL/SQL ?
- l) Name the two forms of comments in PL/SQL.

PART – B

Unit – I

2. a) What are the responsibilities of a database administrator ?
- b) Write any five advantages of DBMS.
- c) Describe the various symbols used in ER diagram using example. (5+5+5)
3. a) Explain the three schema architecture of DBMS with a diagram.
- b) What is data independence ? Explain.
- c) Explain any two DBMS interfaces. (6+4+5)

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**Unit – II**

4. a) Explain the five different operations on a file.
b) State the usage of three update operations in a relational model.
c) Explain the types of hashing technique. (5+6+4)
5. a) Explain the complete set of relational algebra operations.
b) Explain SELECT and PROJECT operations with examples.
c) Write a note on magnetic disk. (5+5+5)

Unit – III

6. a) List and explain five data types used in oracle.
b) Explain the UPDATE command in oracle with example.
c) Explain ORDER BY and GROUP BY clauses in SQL. (5+5+5)
7. a) Consider the table
EMPLOYEE (ENO, NAME, DEPT, DESIGNATION, SALARY)
Write the following queries :
i) Find all the employees whose name starts with "K"
ii) Delete the record belongs to "ACCOUNTS" department
iii) Add a column "AGE" of data type NUMBER of size = 3
iv) Increase the salary of all employees by 10%
- b) How do you insert data into a table from another table ? Explain with syntax and example.
c) Explain pattern matching predicate with an example. (4+6+5)

Unit – IV

8. a) Explain the PL/SQL program structure with an example.
b) Explain the conditional statements in PL/SQL.
c) What are the different types of trigger ? Explain. (5+5+5)
9. a) Explain any two looping statements in PL/SQL with example.
b) What is a function ? How do you create a function ? Explain.
c) What are the advantages of PL/SQL ? (5+5+5)
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