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BCACAC 158

Credit Based Second Semester B.C.A. Degree Examination, May/June 2016
(New Syllabus) (2012-13 Batch Onwards)

DATABASE CONCEPTS AND ORACLE
(Common to all batches)

Time: 3 Hours

Max. Marks: 80

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

PART-A

(10×2=20)

- 1. a) Define the terms Data Base and DBMS.
 - b) Differentiate logical and physical data independence.
- c) What is DDL? Why is it used?
 - d) Differentiate spanned and unspanned records.
 - e) Define 1NF.
 - f) What is degree of a relation ? We see volume entitle to sman entitle wenter (i
 - g) How to insert a record in SQL? Give an example.
 - h) What is a dual table in SQL?
 - i) Differentiate char and varchar in SQL.
 - j) Differentiate stored procedures and functions.
 - k) Name the four cursor attributes.
 - I) Write any two uses of database triggers.

PART-B

Unit - I

- 2. a) Explain the different types of languages used in DBMS.
 - b) Write any four advantages of DBMS.
 - c) Explain any five symbols used in ER diagrams along with their meaning. (6+4+5)
- 3. a) Describe the Three-Scheme architecture of DBMS with a neat diagram.
 - b) Explain any two DBMS interfaces.
 - c) List and explain different types of attributes.

(6+4+5)



Unit - II

- 4. a) Explain 2NF with example.
 - b) Explain SELECT and PROJECT operations with a suitable examples.
 - c) Write a note on Internal Hashing.

(6+5+4)

- 5. a) What is RAID technology? How it helps to improve disk access performance?
 - b) Explain any five operations on files.
 - c) Write a note on heap file organization.

(6+5+4)

Unit - III

- 6. a) Explain the UPDATE command with an example.
 - b) List and explain any five data types used in oracle.
 - c) Explain GROUP BY and ORDER BY clauses in SQL with an example to each. (4+5+6)
- a) Consider the table EMPLOYEE(ENO,NAME,DEPT,DESIGNATION,SALARY).
 Write the following queries:
 - i) Retrieve the name of all the employees working for HR dept
 - ii) Delete the records belong to Accounts dept
 - iii) Add a column PHONE of data type Number with size 10
 - iv) Increase the salary of all the employees by 20%
 - v) List the employee details according to DEPT.
 - b) Explain how to insert data into a table from another table with suitable example.
 - c) Explain any four aggregate functions with example.

(5+6+4)

Unit - IV

- 8. a) Explain the PL/SQL program structure with an example.
 - b) Explain the advantages of using database procedures.
 - c) What is a Trigger? Explain the types of trigger.

(5+5+5)

- a) Explain the steps involved in declaring an explicit cursor and manipulating data in the active data set.
 - b) Explain any two looping statements in PL/SQL with example.
 - c) With an example explain user defined exception handling in PL/SQL. (6+5+4)