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Credit Based Third Semester B.Com. Degree Examination, Oct./Nov. 2017
COMPUTER APPLICATION
(Common to all Batches)
Paper – V : Database Concepts and Oracle

Time : 3 Hours

Max. Marks : 80

PART – A

Answer **any ten** of the following :

(10×2=20)

1. a) Define terms :

    i) Entity

    ii) Domain.

b) What is a weak entity ?

c) Name the different data types in Oracle.

d) What is DDL ?

e) Give the syntax and usage of UNION and INTERSECT operation.

f) Give the structure of PL/SQL program.

g) What is meant by Cursors ?

h) What is the difference between logical and physical independence ?

i) Explain GROUP BY clause with syntax.

j) What is CASCADE option in a DROP statement.

k) Explain how CHECK constraint can be applied to a table.

l) What is a function in PL/SQL? How it is different from procedure ?

PART – B

Note : Answer **one full** question from **each** Unit.

Unit – I

2. a) Discuss the main characteristics of database management system.

   b) Who is database administrator (DBA) ? What are the responsibilities of DBA ?   (9+6)

3. a) Explain the different symbols used in E-R diagram, with their meaning. Give an example.

   b) What is meant by recursive relationship type ? Give example.

   c) Explain cardinality ratio for a binary relationship. Give examples.   (6+4+5)

Unit – II

4. a) EMPLOYEE (Eno, Ename, Deptno, BasicSalary)
   Department (DeptNo, Dname, Manager)
   SQL Queries

      i) Display Eno, Ename, Dname and BasicSalary for all employees

      ii) Display departmentwise totalsalary of all employees

      iii) Increase the salaries of all employees of DeptNo 100 by 7%

      iv) List Ename and Dname of the employees with BasicSalary is >25,000.

   b) What is View ? Give syntax and example of creating a View.   (9+6)

5. a) Explain different aggregate functions with syntax and example.

   b) What is sub query ? Give an example.   (10+5)

Unit – III

6. a) What is function ? Explain how to create a function ?

   b) Explain the looping constructs in PL/SQL.

   c) Write a PL/SQL program to check whether a given string is palindrome or not.   (4+5+6)

7. a) What is procedure ? Explain how to create a procedure ?

   b) Write a note on :

      i) Comments in PL/SQL.

      ii) DBMS_OUT.PUT_LINE

   c) Define PL/SQL. What are the advantages of PL/SQL ? (4+6+5)

Unit – IV

8. a) What are the different types of triggers ? Explain the purpose of trigger with syntax and example.

   b) What is a package ? How to create a package ? Explain with an example. (8+7)

9. a) What is cursor ? How to create it and how to read the records from it ? Explain with an example.

   b) Explain the following terms :

      i) SET SERVER OUTPUT ON/OFF

      ii) FETCH. (10+5)