Reg. No. ☐☐☐☐☐☐☐☐☐

BCACAC 158

Credit Based Second Semester B.C.A. Degree
Examination, September 2022
(Common to all Batches)
DATABASE CONCEPTS AND ORACLE

Time : 3 Hours   Max. Marks : 80

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

PART – A

1. a) Define DBA. List out any two functions of DBA.   **(10×2=20)**

   b) What is Data definition language ? Mention any two DDL commands.

   c) Define Primary key.

   d) Differentiate between Strong and Weak entities.

   e) List the types of joins used in SQL.

   f) Write the use of INSERT and DELETE command in SQL.

   g) Give two advantages of PL/SQL over SQL.

   h) Mention the difference between BEFORE and AFTER trigger.

   i) Give the syntax of FOR loop construct in PL/SQL.

   j) Differentiate Char and Varchar in SQL.

   k) Differentiate between IN and OUT parameters of procedure and function.

   l) What is First Normal Form (1NF) ?

PART – B
Unit – I

2. a) List and specify the use of various Database language.

   b) Explain different categories of End Users.

   c) Define Entity, Entity set and Attribute in Relation.   **(5+5+5)**

3. a) Describe Data Independence.

   b) Explain the characteristics of Database.

   c) List and explain the various symbols used in ER diagram. **(5+5+5)**

Unit – II

4. a) Explain the two basic UPDATE operations on relations.

   b) Explain the various types of constraints used in Relation.

   c) Write a note on Set Theoretic operations. **(5+5+5)**

5. a) Explain SELECT and PROJECT operations with suitable examples.

   b) Describe with example 2NF.

   c) Write a note on Hashing Techniques. **(5+5+5)**

Unit – III

6. a) How do you create a foreign key constraint in a table ? Explain with syntax and example.

   b) List and explain different clauses used in SELECT statement.

   c) List and explain the use of any 5 Aggregate functions. **(5+5+5)**

7. a) How do you create a table from another table ? Explain with syntax and example.

   b) Explain 'BETWEEN' and 'LIKE' operators with example.

   c) Explain CHECK constraint with syntax and example. **(5+5+5)**

Unit – IV

8. a) What is Cursor ? Explain all the attributes of Cursor.

   b) Explain various looping statements of PL/SQL with example.

   c) Explain different Data types supported by PL/SQL. **(5+5+5)**

9. a) With syntax explain how to create a function in PL/SQL.

   b) Explain various forms of IF----EndIF statement with syntax and example.

   c) With syntax explain different parts of a trigger. **(5+5+5)**

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