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BCACACN 301

**Third Semester B.C.A. Degree Examination, February/March 2023
(NEP – 2020) (2022 – 2023 Batch Onwards)
DATABASE MANAGEMENT SYSTEMS (DSCC)**

Time : 2 Hours

Max. Marks : 60

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

PART – A

(6×2=12)

1. a) What is DBMS ?
- b) Define the “degree of relationship”.
- c) What is candidate key ? Give an example.
- d) What do you mean by “normalization of data” ?
- e) Write the syntax of create table command.
- f) How can you RENAME the tables ?
- g) Give two advantages of PL/SQL over SQL.
- h) List four cursor attributes.

PART – B

Unit – I

2. a) Explain three schema architecture of database with a neat diagram.
- b) Explain the various types of attributes used in ER modelling. (6+6)
3. a) Explain the advantages of DBMS.
- b) Explain relationship type and cardinality ratios with example. (6+6)

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Unit – II

- 4. a) Explain entity integrity and referential integrity constraints.
- b) With example explain 1NF and 2NF. (6+6)
- 5. a) Write a note on domains and attributes with respect to relational schema.
- b) Explain BCNF with example. (6+6)

Unit – III

- 6. a) Explain CHECK constraint with syntax and example.
- b) List and explain aggregate functions with example. (6+6)
- 7. a) Consider the table CLIENT_MASTER(CLIENT_NO, NAME, CITY, STATE).
Write the following queries :
 - i) Find out the names of the clients with CLIENT_NO='C00001'.
 - ii) Change the city of CLIENT_NO 'C00005' to 'Bangalore'.
 - iii) Retrieve the list of names, city and state of all the clients.
 - iv) Delete from CLIENT_MASTER where the column STATE holds the value 'TAMILNADU'.
 - v) Add a column called 'TELEPHONE' of data type 'NUMBER' and size=10 to the CLIENT_MASTER table.
 - vi) Delete the table CLIENT_MASTER along with its data.
- b) List and explain any three data types used in Oracle. (6+6)

Unit – IV

- 8. a) Explain the structure of PL/SQL program with an example.
 - b) What is a cursor ? Explain explicit cursor with an example. (6+6)
 - 9. a) With syntax and example explain how package is created and executed in PL/SQL ?
 - b) Write a note on error handling in PL/SQL. (6+6)
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