

DD–2865

B. C. A. (II) EXAMINATION, 2021

Paper Fourth

DBMS (ORACLE, SQL)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt any *two* parts from each question. All questions carry equal marks.

Unit—I

1. (a) Define DBMS. Also write the purpose of Database system.
- (b) Describe the role of Data administrator.
- (c) Write the difference between Hierarchical Data model, Network Data Model and Relational Data Model.

Unit—II

2. (a) Define keys and also write different types of keys.
- (b) Write short notes on the following :
 - (i) Generalization
 - (ii) Specialization

- (c) Explain Relationship. And also write the types of relationships exists among entities.

Unit—III

3. (a) Write different Set operations used in Relational Algebra.
(b) Define relational integrity constraints.
(c) Explain select (σ) and project (π) operations.

Unit—IV

4. (a) Explain third normal form (3NF)
(b) What is denormalization ?
(c) Describe functional dependencies.

Unit—V

5. (a) Explain the following command with syntax and example (if necessary)
(i) Alter Table
(ii) Insert operation
(b) Write SQL data types and literals.
(c) Describe Group By and Having..... with example.