

Roll No.

DD-2865

B. C. A. (Part II) EXAMINATION, 2020

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) Explain Database Languages.
- (b) Write different kinds of users.
- (c) Describe the structure of database storage system.

Unit—II

2. (a) Explain the following keys :
 - (i) Primary key
 - (ii) Foreign key
 - (iii) Candidate key
 - (iv) Alternate key
- (b) Explain Aggregation. Also draw E-R diagram with aggregation.
- (c) Explain components of E-R diagram.

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Unit—III

3. (a) Write different types of relational algebraic operations.
(b) Explain different types of joins.
(c) What are the two integrity rules used in DBMS ?

Unit—IV

4. (a) What is Normalization ? Explain 1NF and 2NF.
(b) Write BCNF (Boyce-Codd Normal Form).
(c) Explain partial dependency and join dependency.

Unit—V

5. (a) Explain the following commands with syntax and example (if necessary) :
(i) SELECT Command
(ii) Create Table Command
(b) Write Aggregate functions in SQL.
(c) Describe arithmetic functions used in SQL.