BCA (Part-III)
Term End Examination, 2019-20
Paper-V
Introduction to RDBMS (Oracle)

Time: Three Hours   [Maximum Marks: 100]

नोट : सभी प्रश्नों के उत्तर दीजिए। सभी प्रश्नों के अंक समान है।

Note : Answer all questions. All questions carry equal marks.

Unit-I

1. (a) What is DBMS? Explain the purpose of Database System
   (b) Explain the following in detail:
       i. Data independency
       ii. Database Administrator

OR

   (a) Explain different kinds of DBMS users with example.
   (b) What is Data Models? Compare Hierarchical and Network model with diagram.

Unit-II

2. (a) Explain in details the concept of E-R Model with suitable example.
   (b) Explain the following type of keys with example
   i. Primary Key   ii. Alternate   iii. Candidate key   iv. Super Key

OR

   (a) Explain weak entity Set and Strong Entity Set with Exmaple.
   (b) How do we Convert an E-R model to relational Schema? Explain with Example.

Unit-III

3. (a) What is integrity Constraints? Explain different integrity Constraints with   examples.
   (b) What is join? Explain natural join, eaui join, and outer join with example.

OR

   (a) Write the difference between simple and complex queries. Explain with example.
   (b) Explain the following: -
       i. Cartesian product
       ii. Set operation

Unit-IV

4. (a) What is Normalization? Explain 1 NF and 2NF normal Form with example.
   (b) What is Multivalued dependency? Explain 4 NF with example.

OR

   (a) What is join dependency? Explain the fifth normal form (5NF)
   (b) Explain the Following: -
       i. pitfalls in database
       ii. update anomqlies

Unit-V

5. (a) Explain the following database command:
       i. Delete ii. Alter iii. Update

   (b) What is SQL and its environment? Explain with example

OR

   (a) Explain the following clause with examples

       i. Where Clause ii. From Clause iii. Having Clause iv. Group by Clause V. Order by Clause

   (b) Write the Commands to the Following?

       i. Create table Student having attribute student_name, Roll No, Class, age, Percent and take Roll no as primary Key.

       ii. Select all first division Students.

       iii. Delete the Structure of table.