BCA/M-16
RELATIONAL DATA BASE MANAGEMENT SYSTEM
PAPER-BBA-244

Time Allowed: 3 Hours Maximum Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) Distinguish between Primary and Secondary key.
   (b) Distinguish between Relational Algebra and Relational Calculus.
   (c) What are the advantages of Normalization?
   (d) What are the limitations of SQL ?

Unit-I

2. Explain the various relational constraints using examples.

3. Explain Domain-oriented relational calculus using suitable examples.

UNIT-II

4. Explain with example :
   (a) Functional dependency.
   (b) Full Functional dependency.
   (c) Transitive dependency.
   (d) Multivalued dependency.

5. Explain 1NF, 2NF and 3NF using suitable example
.

UNIT-III

6. (a) Explain basic data types in SQL.
   (b) What is a View ? Explain CREATE VIEW command using example.

7. Given the following relation schema :
   EMP (ENO, ENAME, AGE, BASIC) Work IN (ENO, DNO)
   Write SQL queries for the following :
   (a) Find the employees whose basic pay is between 6000 and 9000.
   (b) Find the employees working in Deptt. No. 15.
   (c) Display all employees according to ascending order of AGE.
   (d) Find the maximum basic pay in EMP table.

UNIT-IV

8. (a) Write a PL/SQL code to find the factorial of a given number.

(b) Explain IF-THEN-ELSIF statement using example.

9. Explain Implicit and Explicit cursors using examples. Also explain various attributes of these cursors.