

B.C.A Semester - 3 (NEP-2020) Examination**OCT/NOV-2025****DBMS -1 (Major-7)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que.1 Attempt following questions.(Attempt any Two) (10)
1. Explain E. F. Codd Rules.
 2. Explain the difference between DBMS and RDBMS.
 3. Explain the Data Models of RDBMS.
 4. Explain Database Schema and Structure of DBMS.
- Que.2 Attempt following questions.(Attempt any Two) (10)
1. Explain Relational Algebra in detail.
 2. Write a note on Normalization.
 3. Explain various Data Constraints.
 4. Explain Relational Model in detail.
- Que.3 Attempt following questions.(Attempt any Two) (10)
1. Explain DCL and DQL commands in detail.
 2. Explain Query and Subquery with example.
 3. Explain TCL commands in detail.
 4. Write a detail note on CURD operations.
- Que.4 Attempt following questions.(Attempt any Two) (10)
1. Explain various types of Join in SQL.
 2. Explain any five character functions with example.
 3. Explain SQL Set Operators in detail.
 4. Explain SQL Role Commands.
- Que.5 Attempt following questions.(Attempt any Two) (10)
1. Explain SQL * Plus in detail.
 2. Explain Architecture of DBMS.
 3. Explain various types of Keys.
 4. Explain any five Aggregate functions with example.
