

B.SC(IT) SEMESTER - 3 (NEP-2020) Examination**OCT/NOV-2024****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 Answer the Followings (Any Two) (10)
- 1) What is database? Explain database schema.
 - 2) Explain architecture of DBMS.
 - 3) Differentiate DBMS v/s RDBMS.
 - 4) Explain Relational data model.
- Que-2 Answer the Followings (Any Two) (10)
- 1) What is normalization? Write the need of normalization with example.
 - 2) Explain relationship and its types.
 - 3) Explain super key and candidate key.
 - 4) Explain union and minus operators with example.
- Que-3 Answer the Followings (Any Two) (10)
- 1) What is CURD? Explain create and read operations.
 - 2) Define query and sub query with example.
 - 3) Explain select command in detail.
 - 4) Explain commit and rollback commands.
- Que-4 Answer the Followings (Any Two) (10)
- 1) Explain any two set operators in SQL.
 - 2) Explain inner and outer join.
 - 3) Explain grant and revoke commands.
 - 4) Explain any five character functions.
- Que-5 Answer the Followings (Any Two) (10)
- 1) Write E. F. Codd rules.
 - 2) Discuss types of normalization.
 - 3) Explain update and delete commands.
 - 4) Explain aggregate functions with example.
