

**IM.Sc. CSF (NEP) Sem.-1 Examination**

**MDC-ICSF-114T**

**Database Management System**

**February-2025**

**[Max. Marks : 25**

**Time : 1-00 Hour]**

**Question 1 Answer the following questions:**

- i. Explain the role of SELECT, WHERE, and JOIN operations in querying relational databases. 5Marks
- ii. What is the significance of commands like COMMIT, ROLLBACK, and SAVEPOINT? 5Marks

**OR**

- i. What are the different types of relationships that can be represented in an Entity-Relationship diagram? Explain with examples. 5Marks
- ii. Write a Short note on DDL 5Marks

**Question 2 Answer the following questions:**

- i. Explain the set operations in relational algebra. How do UNION, INTERSECTION, and DIFFERENCE operations work on two relations? Provide examples to illustrate. 5Marks
- ii. Explain the GROUP BY clause in SQL. With example. 5Marks

**OR**

- i. What is the HAVING clause in SQL, and how does it differ from the WHERE clause? Provide an example of when you would use HAVING instead of WHERE. 5Marks
- ii. What are the differences between INNER JOIN, LEFT JOIN, and RIGHT JOIN? Explain with practical examples how each of these joins behaves when applied to two tables. 5Marks

**Questions 3: Attempt any Five out of Six.**

**05 Marks**

- 1. List different Numeric Data Types.
- 2. Write the Full form of DQL.
- 3. What is Information?
- 4. What is Group By function?
- 5. What is RTRIM?
- 6. What is Foreign Key?

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