

B.SC(IT) SEMESTER - 4 (NEP-2020) Examination**March/April-2026****DBMS -2 (Major-10)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que.1 Answer the following questions (Any Two) (10)

- 1) What is Database Link? Explain its importance.
- 2) Explain advantages and disadvantages of Indexing.
- 3) What is SQL Cluster? Explain creating and using it.
- 4) What is SQL Sequence? Explain creating and using it.

Que.2 Answer the following questions (Any Two) (10)

- 1) Explain creating, updating and deleting packages.
- 2) What is stored procedures? Explain creating and executing Procedure
- 3) Explain %TYPE and %ROWTYPE.
- 4) What is trigger? Explain creating and executing it.

Que.3 Answer the following questions (Any Two) (10)

- 1) Explain Data file, Redo log file, Control File and Archive File.
- 2) What is Recovery techniques? Explain different recovery techniques.
- 3) What is Lock? Explain different types of Lock.
- 4) What is Backup strategies? Explain incremental backup.

Que.4 Answer the following questions (Any Two) (10)

- 1) Explain Database monitoring.
- 2) Explain authorization mechanisms.
- 3) Explain Access control at different levels like: Database, object, statement and row.
- 4) Explain Database security threats and vulnerabilities.

Que.5 Answer the following questions (Any Two) (10)

- 1) What is SQL Snapshot? Explain its types.
- 2) Explain PL/SQL Block structure.
- 3) What is Deadlock? How it can be avoided? Explain detection and prevention of it.
- 4) What is Database auditing? Explain its importance.
