

**B.SC(IT) SEMESTER - 4 (NEP-2020) Examination****March/April-2025****DBMS -2 (Major-10)****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 any two      (10)
1. Explain SQL view in detail.
  2. What are indexes in SQL? Explain primary indexing.
  3. Write a short note on SQL cluster.
  4. Explain SQL snapshot.
- Que-2      Attempt any two      (10)
1. Explain data types available in PL/SQL.
  2. Explain procedures in detail.
  3. What is trigger? Discuss its types.
  4. Explain exception handling in detail.
- Que-3      Attempt any two      (10)
1. What is concurrency control in DBMS? Why it is needed?
  2. Discuss types of lock.
  3. Explain use of redo log file and control file.
  4. Explain various recovery techniques.
- Que-4      Attempt any two      (10)
1. Explain need of databases security and authorization.
  2. List various authentication techniques. Explain any one.
  3. Explain public key encryption and decryption technique.
  4. Explain database auditing in detail.
- Que-5      Attempt any two      (10)
1. What is synonym in SQL? How can we create and delete synonym?
  2. Explain cursor for loop with example.
  3. What is deadlock? Explain deadlock avoidance.
  4. What is database monitoring? Discuss its purpose.

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