

- Q. 1** Attempt any four of the following 16
- Explain stored procedures with an example. Write advantages and disadvantages.
  - Explain insert, update and delete trigger with an example.
  - How to create Sequence explain with example? How to alter and drop a Sequence?
  - What is mean by file organization?
  - Write advantages and disadvantages.
  - How to alter and drop a Sequence?
  - Explain types of file organization .
  - What is cluster? Explain it's types.
- Q. 2** Attempt any four of the following 16
- Explain IF-ELSE statement with an example.
  - Explain different looping statements in PL/SQL.
  - Print odd or even numbers between 1-100.
  - Explain PL/SQL data types.
  - Explain IF-THEN-ELSE statements with an example.
  - Print 1 to 10 numbers using for loop statement.
  - Explain logical operators with an example.
  - Explain variable scope with an example.
- Q. 3** Attempt any four of the following 16
- Write a short note on ACID properties for transaction.
  - Explain different concurrency protocols in Database management systems
  - How to detect deadlock? Explain with an example.
  - Write a short note on DCL statements.
  - Explain read-write locks
  - How to recover from deadlock?
  - Explain shadow paging and log based recovery scheme.
  - Explain the term rollback.
- Q. 4** Attempt any Three of the following 12
- How to create and drop index? Explain with an example.
  - Explain variable scope with an example.
  - How to recover from deadlock?
  - Explain types of stored procedures.
  - Explain GOTO and NULL statements with an example.
  - What is serializable schedule?