

Q.3. Answer the following. (Solve any 5) (10)

1. What is derived attributes ?
2. What is integrity constraints ?
3. State the definition of DBMS.
4. Which data types are available in SQL ?
5. What is deadlock ?
6. State the difference between procedural and non procedural DML.

Q.4. Answer the following in detail. (Solve any 6) (30)

1. What are the advantages of DBMS ?
2. Define normalization and state the advantages of normalization.
3. Explain in detail properties of transaction.
4. What is failure ? Explain different types of failures.
5. What is concurrency ? Explain any 2 problems associated with concurrency.
6. Explain in detail the users of DBMS.
7. Explain wait-die and wound-wait schemes related to deadlock.

Q.5. Answer the following in detail. (Solve any 1) (10)

1. Explain in detail ERD.
 2. Explain in detail components of DBMS.
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