

(Based on remember)

Answer any five Questions.

1. (a) What is Data base management system? Why do we need a DBMS?
(b) Discuss advantages and disadvantages of a file oriented system?
2. (a) Explain the following operations of relational algebra with suitable examples:
(i) Selection (ii) Projection
(b) Define BCNF with suitable examples. Distinguish 3NF and BCNF.
3. What is a transaction? Draw a state diagram and discuss the typical states that a transaction goes through during execution.
4. What do you mean by generalization and specialization? Explain with example.
5. Discuss the basic features of the relational data model. Describe their advantages, disadvantages and importance to the end-user and the designer.
6. Discuss in detail with suitable examples about the Granting and Revoking permissions in SQL.
7. What are the different formatting commands used in SQL. Explain five commands with suitable examples.
8. Write short notes on any four:
(i) 2NF (ii) Data abstraction (iii) Data independence (iv) Data base manager (v) Entity sets (vi) Dependency preservation (vii) Conflict serializeability (viii) Time stamp base protocol