

- Q.1 (a) What do you mean by DBMS? Give database system architecture. [07]
(b) What do you mean by schema? Explain any four Schema objects. [07]

OR

- Q.1 (a) Explain Concept of index file and B-tree. [07]
(b) Give difference between DBMS and RDBMS. [07]

- Q.2 (a) Explain Insert and update command with syntax and example. [07]
(b) Write a note on E-R Diagram. [07]

OR

- Q.2 (a) Write a note on Network Data model. [07]
(b) Explain Select command in detail. [07]

- Q.3 (a) What do you mean by Normalization? Define 1st, 2nd, 3rd normal form and BCNF. [07]
(b) What do you mean dependency? Explain different types of dependency in brief. [07]

OR

- Q.3 (a) Write detail note on relational model with advantages. [07]
(b) What do you mean by relational algebra? Explain any three relational operations. [07]

- Q.4 (a) What do you mean by DDL? Explain DDL commands. [07]
(b) What do you mean by constraints? Explain check constraint and give difference between primary key constraint and unique key constraint. [07]

OR

- Q.4 (a) What do you mean by joining? Explain different types of joining with suitable example. [07]
(b) What do you mean by sub-query? List different types of sub-query and explain any three types of sub-query. [07]

- Q.5 (a) Explain following function: substr(),lpad(),Next_day(),upper(), count(*),round() and Abs() [07]
(b) Write short note on Sequence. [07]

OR

- Q.5 (a) Explain commit, rollback and save point. [07]
(b) Write note on view. [07]
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