

### Important Questions:

- **Answer Any two**
- Explain types of databases
- Explain advantages of Dbms
- Differentiate data and information
- **Answer Any two**
- Explain Roles of DBMS
- Explain Hierarchical Model
- Explain Database System Environment
- Explain Network Model **OR** Relational Model
- **Answer the following**
- Explain characteristics of Relational Table
- Explain data dictionary and system catalog
- **Answer the following**
- Explain types of keys
- Explain types of Relationships in Relational database with examples
- Explain Types of Joins
- Explain Product, Select, divide and Project relational operators
- **Answer the following**
- Explain Normalization? Explain different forms with examples in brief
- Explain Types of Entities, Relationship strength, Relationship Participation, Recursive Relationship and Cardinality in ER Model
- Draw an ER Diagram using following business rules
- A school operates many departments, each department has many students, each department employs many professor and department offers many courses. Each course generates classes. Each professor is the dean of a school and chairs a department. He teaches students and advices them. Student enrolls in different classes. The building contains rooms and each room is used for different classes.
- **Define any Ten**
- Functional Dependency
- Structural Independence
- Logical Independence
- Full Functional Dependency
- Partial Dependency
- Data Redundancy
- Data Inconsistency
- Modification Anamolies
- Enitivity
- Attributes
- Metadata
- Homonyms