

Theoretical Questions (One question * 10 marks)

1. What is Information System? Explain in detail regarding Information System data processing model with suitable example. Also, elaborate various components of Information system. Furthermore, explain the role of IT in business.
2. What is ERD? Explain in detail regarding Entity and Attributes with suitable examples. Also, discuss about various shapes which can be used while creating an ERD.
3. Explain in detail about data, information with proper examples. Also, elaborate about database and DBMS.
4. Elaborate in detail about data lifecycle. Also, include a suitable example.
5. What is database and why do we need database? Present the applicability of database with suitable examples.
6. What is DBMS? Explain in detail regarding functions DBMS and its task. List various types of DBMS. Elaborate about RDBMS with some real world cases.
7. What is SQL? What are the rules that are to be considered while defining the SQL statements? List various SQL categories. Also, explain about DDL and DML.
8. What is constraints? List and elaborate various types of constraints.
9. What are key in relational database? Explain all types of keys in detail.
10. What is data dictionary? Create a data dictionary for Employees Table.