



**Q.2 Answer the followings. (Any Five) (15)**

1. Give the differences between Data and Information.
2. What is an Entity & Relationship? Also explain the types of Relationship in detail.
3. What is data independence? Explain types of data independence.
4. List out different database users.
5. Give difference between Generalization and Specialization.
6. What is Attribute? List out different types of Attributes.

**Q.3 Answer the following. (Any three) (15)**

1. What is the differences between weak entity type and strong entity type? Also explain the primary key and super key and candidate key with example.
2. Explain Data Dictionary with example. Also explain the types of Data Dictionary.
3. What is data model? Explain various types of data model.
4. Describe three-level ANSI-SPARC database architecture.

**Q.4 Answer the following.**

**A. What is Functional Dependencies? List the types of functional dependencies and explain any two in detail. (05)**

**B. 1. What is normalization? Explain 1NF, 2NF and 3NF with example. (7)**

**2. Draw E-R Diagram for a University Enterprise (3)**

**OR**

**B. 1. Explain inner Join and Outer join with example and give the difference between inner Join and Outer Join. (7)**

**2. Draw E-R Diagram for Banking Enterprise. (3)**