**Chapter No.1: Database System Architecture**

1. Define following terms…..

DBMS, Primary key, forging key, candidate key, compound key, Alternate

Key, Data, Information, Meta data, Data Abstraction

1. What is Advantage of DBMS?
2. Characteristics of DBMS.
3. Differences of DA and DBA
4. Differences of physical and logical data independence
5. Explain Role of DBA.
6. State the advantages of Database management systems over file processing system.
7. 3 –Level ANSI SPARC Database System
8. Explain DBMS System Architecture.
9. Two-tier-architecture Vs Three-tier -architecture

**Chapter No.3 Relational query languages**

1. **Consider following schema and represent given statements in relation algebra form.**

Branch(branch\_name,branch\_city)

Account(branch\_name, acc\_no, balance)

Depositor(customer\_name, acc\_no)

* *Find out list of customer who have account at ‘abc’ branch.*
* *Find out all customer who have an account in ‘Ahmedabad’ city and balance is greater than 10,000.*
* *find out list of all branch name with their maximum balance.*

1. List out joint operation and explain any one with example.
2. Selection and Projection with example.
3. Explain types of set operation.
4. List all the Relational algebra operators. Explain the working of Cartesian product Operation in appropriate example.