**DataBase Management System**

**Question Bank**

**Module 1:- Introduction Database Concepts**

1. Explain Characteristics of databases.

2. Terminology and definitions related to databases . Example for any concepts.

3.Discuss drawbacks of file system.

4. Advantages of DBMS over file system

5. How database offers solution to the problem of file system ? OR Difference between DBMS and File system.

6 .Discuss 3-schema architecture.

Or

.Discuss 3-layers of DBMS system.

Or

Discuss overall structure of DBMS in detail with appropriate diagram. [5/10 marks]

7. Classify the Database users.

8. Explain Data abstraction

9. Explain data Independence.

10. Explain types of DBA.

11. Write different roles and responsibilities of DBA.

**Module 2: Entity–Relationship Data Model**

1. Explain cardinality and participation with examples
2. Draw E-R Diagram for given Problem statement
3. Draw and Explain EER with suitable example
4. Differentiate weak entity set and strong entity set supported with example
5. Discuss different types of attributes with example and notations
6. What is Concept of keys in database? Explain different types of keys with example.
7. Explain all the relevant terminology with respect to ER and EER diagram
8. Discuss Specialization, Generalization and aggregation with suitable example?
9. Explain Entity set

**Module 3: Relational Model and relational Algebra**

1. Discuss concept of keys in detail.

2. Apply and show the use of all the relevant terminology of Relational Model with example.