**Module 1**

1. explain sadian features of rdbms ?

2. differenciate traditional rdbms and no sql database ?

3. what is impedance mismatch & explain in details ?

4. explain the common characteristics of nosql database

5. define aggregate models and what are the types of aggregate model types

6. What are consequence of aggregate orientation data models

7. explain key value database

8. explain document database

9. explain graph database

10. explain column based database

11. what are matrialied views ? explain with example

12. describe modaling for data access using column store and graph database data model

**Module 2**

What is CAP Theorm, how it is applicable to NoSQL system?

What is version stamp? how version stamp is applied on different nodes?

What are the different ways to create version stamp?

Discuss various distribution data models?

Explain the concept of sharding and master slave duplication/replication with an example?

Define the following

1. Resillience

2. Write Resillience

3. Eventual consistency

What are all different types of consistency conflicts, explain with an example

**Module 3**

Explain basic map reduce function with an example(diagram)?

Discuss different operations in map reduce function?

What is bucket explain with an example(key:value)?

Explain key value features(benefits, advantages, disadvantages, characteristics etc.,)?

When not to use key value pair?

Describe how Map Function process input data and generates intermediate key value pair

Explain the concept of consistency in key : value and its importance