VISHNU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)D:\exam01\logo_red.png

VISHNUPUR: BHIMAVARAM

Mid – I Examinations

**NOSQL DATABASES**

BRANCH: AIML and CS&BS DATE:

YEAR/SEM : III B. Tech. II Sem. TIME:

**\*\*\*Each question carries 6 Marks \*\*\*\*\***

**UNIT-1**

1. What is NOSQL? Explain the importance of NOSQL.

2. Explain various NoSQL Databases in detail

3. Difference between SQL and NoSQL Databases in detail

4. List and explain the Value of Relational Databases with example.

5. List out the limitations of RDBMS over NoSQL.

6. Explain Impedance Mismatch in detail with example.

7. What are the features of RDBMS.

8. Write a short note on Attack of the Cluster.

9. Explain the Emergence of NOSQL.

10. What are Aggregate Data Models? Explain Relations and Aggregates.

11. Explain the Consequences of Aggregate Orientation.

12. List and Explain the types of Aggregate Data Models.

13. Write a note on: (i) Key-Value Data Model

(ii) Document Data Model

**UNIT-2:**

1. What are distribution Models? Explain its types in detail

2. Write a note on: (i) Single Server

(ii) Sharding

3. Explain Master-Slave Replication.

4. What is Peer-to-Peer Replication? Explain in detail.

5. Explain the process of Combining Sharding and Replication.

6. Explain Update Consistency along with Write-Write Conflict.

7. Explain Read-Write Conflict in Logical Consistency.

8. Discuss CAP Theorem. How is it applicable to NoSQL Systems.

9. Explain Key-Value Store and its limitation in detail

10. List and explain the features of Key-Value Store.

11. What are the problem spaces where key-value stores are not the best solution?

12. Discuss some of the problems where key-value stores are a good fit.

13. Discuss any three use cases and limitations of Key-Value Store.

14. Explain Query Features of Key-Value Store.

**UNIT-3**

1. Explain Column family data store with suitable examples

2. Explain below with respect to Document databases. i) Scaling ii)Query Features iii) Use cases

3. What are the limitations of Document Database?

4. Discuss any three real time use cases for the document databases.

5. Explain Cassandra Architecture in Detail.

6. Explain different data types available in CQL.

7. Define CQL. Describe about creating, altering, dropping a keyspace in cassandra.