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

VISHNUPUR: BHIMAVARAM

Mid – II Examinations

**NoSQL Databases**

BRANCH : CSE DATE:

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

Max. Marks: 30

| 1. | a) | Describe about creating, altering, dropping a keyspace in cassandra with an example. | L2 | CO3 | [6M] |
| --- | --- | --- | --- | --- | --- |
|  |  | **(or)** |  |  |  |
| 2. | a) | Define CQL. List and explain CQL Collection data types with an example. | L1 | CO3 | [6M] |
| 3. | a) | Define Document Database. List and explain the features of document databases. | L1 | CO4 | [6M] |
| b) | Illustrate in detail about MongoDB DataModel and its types. | L2 | CO4 | [6M] |
|  |  | **(or)** |  |  |  |
| 4. | a) | Explain basic CRUD operations with example in MongoDB. | L2 | CO4 | [6M] |
| b) | Discuss the suitable use cases of document databases. When document databases are not suitable. | L2 | CO4 | [6M] |
| 5 | a) | Explain the concept of nodes, relationships, and properties in Neo4j and their role in representing data. | L2 | CO5 | [6M] |
| b) | List the advantages of using a graph database like Neo4j for representing and querying connected data. | L1 | CO5 | [6M] |
|  |  | **(or)** |  |  |  |
| 6 | a) | Discuss some Neo4J CQL Read and Write Clauses with an example. | L2 | CO5 | [6M] |
| b) | Explain the differences between indexes and constraints in Neo4j and provide examples of when to use each. | L2 | CO5 | [6M] |
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YEAR/SEM : III B. Tech. II Sem. TIME:

| 1. | a) | Outline the four primary CRUD operations in Cassandra. How it is performed using CQL? | L2 | CO3 | [6M] |
| --- | --- | --- | --- | --- | --- |
|  |  | **(or)** |  |  |  |
| 2. | a) | Describe the replication strategies available in Cassandra with an example. | L2 | CO3 | [6M] |
| 3. | a) | Discuss MongoDB data types commonly used within documents and provide examples for each. | L2 | CO4 | [6M] |
| b) | Explain in detail about different strategies for optimizing performance in MongoDB. | L2 | CO4 | [6M] |
|  |  | **(or)** |  |  |  |
| 4. | a) | Discuss different types of indexes available in MongoDB and their use cases. | L2 | CO4 | [6M] |
| b) | Describe the process of creating a CSV file from a MongoDB collection. | L2 | CO4 | [6M] |
| 5 | a) | Define Graph Database. How a graph database is different from the other types of NoSQL databases. | L1 | CO5 | [6M] |
| b) | Discuss the principles of data modeling in Neo4j and how graph schemas are designed. | L2 | CO5 | [6M] |
|  |  | **(or)** |  |  |  |
| 6 | a) | Define Cypher Query Language. Explain Neo4j CQL Data types and its operators. | L1 | CO5 | [6M] |
| b) | Discuss the features and some suitable examples of Graph Database. | L2 | CO5 | [6M] |