NoSQL Databases
Mid II Important Questions

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

1.	a)	Outline the four primary CRUD operations in Cassandra. How it is performed using CQL?	L2	[6M]
2.	a)	Describe the replication strategies available in Cassandra with an example.	L2	[6M]
3.	a)	Discuss MongoDB data types commonly used within documents and provide examples for each.	L2	[6M]

	b)	Explain in detail about different strategies for optimizing performance in MongoDB.	L2	[6M]
4.	a)	Discuss different types of indexes available in MongoDB and their use cases.	L2	[6M]
	b)	Describe the process of creating a CSV file from a MongoDB collection.	L2	[6M]
5	a)	Define Graph Database. How a graph database is different from the other types of NoSQL databases.	L1	[6M]
	b)	Discuss the principles of data modeling in Neo4j and how graph schemas are designed.	L2	[6M]
6	a)	Define Cypher Query Language. Explain Neo4j CQL Data types and its operators.	L1	[6M]
	b)	Discuss the features and some suitable examples of Graph Database.	L2	[6M]