Program: Computer Engineering   **Semester: IV**
Course: Database Management System   **Course Code: DBS228917**

Question Bank: PT2

1	Explain ACID properties of transaction
2	Draw and explain state diagram of transactions
3	Define Transaction with an example.
4	Explain the steps involved in query processing and optimization.
5	Give the advantages of concurrency in DBMS.
6	Explain Timestamp Based Protocols
7	Explain Validation based protocol.
8	SQL query on subquery and join.
9	Numerical on conflict serializibility.
10	Explain the concepts of LOCK in concurrency control.
11	Explain starvation of transaction. Also state steps to avoid starvation.
12	Describe two-phase locking protocol.
13	Define deadlock with the help of an example.
14	Explain wait-for graph for deadlock detection.
15	Numerical on Timestamp Based Protocols
16	Explain conflict serializibility with example.
17	Describe view serializibility with example.
18	Explain cascade and cascadeless schedule.
19	Enlist the key features of NoSQL database
20	State advantages and disadvantages of using NoSQL databases.
21	Differentiate between SQL and NoSQL databases briefly.
22	List two common types of NoSQL databases.
23	Give compatibility function.
24	State the significance of SQL in Cassandra.
25	Describe the basic steps involved in creating a new database in Cassandra.
26	Describe the basic steps involved in creating a new database in MongoDB.
27	Describe the steps involved in setting up a MongoDB database, creating collections, and inserting documents into a collection.