SSR Degree and PG College (Autonomous)
B.COM (CA) YEAR- II SEM-III
RELATIONAL DATABASE MANAGEMENT SYSTEMS
Important Questions (Long -Short)

UNIT-I

Important Long Questions

1. Explain DBMS architecture and three-level architecture with neat diagram.
2. Differentiate DBMS and File System. Explain advantages of DBMS.
3. Explain ER Model and ER Diagram with example.
4. Explain Keys, Constraints and Relational Model.

Important Short Questions

1. Define DBMS.
2. What is schema?
3. Define DBA.
4. What is a primary key?
5. What is foreign key?
6. Define ER model.
7. What is data dictionary?
8. What is candidate key?
9. Define relation.
10. What is domain?

UNIT-II

Important Long Questions

1. Explain normalization up to BCNF with examples.
2. Discuss Referential Integrity and Entity Integrity.
3. Explain file organization methods.
4. Explain indexing and tree structures.

Important Short Questions

1. Define normalization.
2. What is 1NF?
3. What is 2NF?
4. What is 3NF?
5. Define BCNF.
6. What is referential integrity?
7. Define redundancy.
8. What is indexing?
9. What is heap file?
10. What is hashed file?

UNIT-III

Important Long Questions

1. Explain SQL commands (DDL,DML,DCL,TCL) with examples.
2. Explain joins and nested queries.
3. Explain views, indexes and sequences.
4. Write SQL queries using WHERE, GROUP BY and ORDER BY.

Important Short Questions

1. Define SQL.
2. Expand DDL.
3. Expand DML.
4. What is a view?
5. What is a join?
6. Define nested query.
7. What is GROUP BY?
8. What is ORDER BY?
9. Define index.
10. What is a synonym?

UNIT-IV

Important Long Questions

1. Explain transaction management and ACID properties.
2. Explain concurrency control and locking protocols.
3. Explain Two Phase Locking and deadlock prevention.
4. Explain database recovery techniques and security.

Important Short Questions

1. Define transaction.
2. State ACID properties.
3. What is concurrency?
4. Define lock.
5. What is 2PL?
6. Define deadlock.
7. What is recovery?
8. What is backup?
9. Define authorization.
10. What is serial schedule?

UNIT-V

Important Long Questions

1. Explain Distributed DBMS architecture with advantages/disadvantages.
2. Explain data fragmentation and replication.
3. Explain client-server database architecture.
4. Differentiate OLTP and OLAP. Explain Data Warehouse and NoSQL.

Important Short Questions

1. Define DDBMS.
2. What is fragmentation?
3. What is replication?
4. Define client-server DB.
5. What is OLTP?
6. What is OLAP?
7. Define NoSQL.
8. What is data warehouse?
9. What is multimedia DB?
10. What is mobile DB?