

Unit1:

1. Explain the purpose of database management system? Define data.
2. Explain the architecture of database system with diagram
3. Write the advantages and disadvantages of DBMS
4. What is user? Explain database administrator
5. Explain database design. What is ER Model? Explain
6. What is data model? explain relational model
7. Explain any five role of Administrator in detail

Unit2:

1. Explain the structure of relational database in detail
2. What is database schema explain in detail
3. Explain key. Write short note on :
 - a. Primary key
 - b. Candidate key
 - c. Foreign key
 - d. Super key
4. Explain selection and projection in relational operations.
5. What is formal relational query language? Explain
6. Explain constraints with example

Unit3:

1. Define the features of good database design
2. Define functional dependency theory? explain in brief
3. What is decomposition? Write any one algorithm for decomposition
4. Explain the type of dependencies in DBMS
5. What is database design process? explain in brief
6. Write the anomalies in a database with explanation
7. What is normal form explain them

Unit4:

1. Explain the basic concepts of indexing and hashing with example
2. What is query cost and how it can be measure explain
3. What is query processing? explain it for select and sort queries
4. What is query optimization explain with example
5. What is relational expression? explain how can it be transformed
6. Explain join operation? write short note on
 - a. Full join
 - b. Left outer join
 - c. Right outer join
 - d. Inner join
7. Explain the evaluation plan? write something about its choices

Unit5:

1. What is transaction explain in brief
2. Write down the features of database transactions using in database management system
3. What is concurrency? How it can be controlled in database management system
4. Define lock base, time stamp base in detail
5. What is validation explain its base protocol
6. Explain recovery write some methods to recover the data from DBMS