QUESTION BANK

**Chapter 1 DATABASE MANAGEMENT SYSTEM**

1) What is the requirement of data security?

2) Compare relational model and hierarchical model and network model

3) Draw overall structure of dbms& explain components

4) What is dbms? Explain the characteristics of dbms

5) What is dbms? Explain the function of dbms

6) Explain in brief client server architecture (2-tier & 3-tier) with example

7) List and explain the function of DBA

8) List and explain types of dbms users

9) Define data independence & list its type

10) Explain 3 levels of data abstraction with suitable diagram

11) Disadvantages and advantages of dbms over file processing system

12) What is data redundancy?

13) Define instance and schema

14) Application of dbms

**CHAPTER 2**

 **RELATIONAL DATA MODEL AND SECURITY AND INTEGRITY SPECIFICATION**

1)What is integrity constraint?What are its types?

2) Domain integrity constraint with exampleI) not null II) check

3) Entity integrity constraint with exampleI) primary key ii) unique

4) Referential integrity constraint with example) reference key ii) foreign key

5) Identify laws

6)How to grant and revoke privileges to user with example

7)Describe commit and rollback with an example

8)Define I) Functional dependency

 ii) Normalization

 iii) Multivalued dependency

9)State the need of file organization

10)What is normalization? Explain the need of normalization by example

11)Compare 3NF and BCNF with example

12)What is the purpose of normalization?

13)List and explain the types of attributes in details

14) Draw E-R diagram library management system & remaining E-R diagram

15) Explain all E-R diagram symbols

16) Differentiate between Functional dependency &multivalued dependency

17) What is relational algebra? Explain select and project operation

18) Relational algebra queries

19) Define the term primary key and candidate key with example

20) Explain tuple and Domain relational calculus

21) What is domain, entity, types of attribute?

**Chapter 3**

**INTERACTIVE SQL**

1)Explain with example group by and having by, orderby clause

2) SQL queries

3)Explain the select clause in sql with suitable example

4)DDL & DML, DCLcommand

5)List and explain any 4 arithmetic operators in sql with example

6)What is aggregate function? Explain with example

7)Draw the state diagram of transaction & Explain

8)Describe ACID properties of transaction

9)Explain the concept of serilizability related to transaction processing

10)Describe string function and date, time function

11)Explain join concept of SQL State types of join

12)Define I) transaction

II) Schedule & type

 III) Serializability

**Chapter 4**

**ADVANCE SQL PERFORMANCE TUNING**

1) what are views? give its syntaxexplain its advantages

2) What is snapshots &Explain its syntax & Example

3) What is synonym &explain its syntax &Example

4) What is index &explain its syntax, types& example

5) What is sequences &Explain its syntax& Example

**Chapter 5**

**PL/SQL DATABASE OBJECTS & SECURITY**

1. Explain shared and Exclusive lock
2. What do u mean by lock based protocol? Explain two phase locking protocol
3. What is use of trigger? Explain types of trigger with example
4. Differentiate between PLSQL function & procedure
5. What is cursor? Explain the types of cursors
6. Give any advantages of using PL/SQL
7. Draw block structure of PL/SQL & Explain
8. Explain looping in PL/sql with example
9. Describe Event Condition Action model of trigger

10) Describe in brief control structure of PL/SQL

11)pl-sql program