Question Bank

UNIT – I – PART – A – 2 MARKS

1. Define a database
2. Define a data model.
3. What are the categories of data models.
4. What is internal level schema.
5. What is the conceptual level schema.
6. List the components of DBMS.
7. What is relational model.
8. What is an entity relationship model?
9. Define weak and strong entity sets?
10. Give the limitations of ER model? How do you overcome this?
11. Define Specialization and Aggregation.
12. What are three characteristics of a relational database system?
13. Define an entity?
14. Define Class and Object
15. Define UML Class Diagrams
16. What is an attribute?
17. Define ER Model
18. Define Extended ER Model
19. What is called Generalization and Specialization
20. What is an entity set?
21. Define a relational schema?
22. What is derived attributes?

PART – B – 16 MARKS

1. List and describe the features and purpose of database.
2. Explain Database System Development Lifecycle with a diagram?
3. Explain the database system architecture with neat diagram?
4. Define UML and Explain the various types of Diagrams
5. Explain the various components of ER diagram with examples
6. List and describe the components of database management system with neat diagram.
7. Explain ER Model with an example
8. Explain Extended ER Model with an example
9. Construct an E-R diagram for a car insurance company whose customers own one or more cars each. Each car has associated with it zero to any number of recorded accidents. Each insurance policy covers one or more cars, and has one or more premium payments associated with it. Each payment is for a particular period of time set of customers, and the date when the payment was received.
10. Draw ER Diagram for Banking Systems/Restaurant menu ordering system

UNIT – II – PART – A – 2 MARKS

1. List some relational integrity constraints.
2. Define domain constraints.
3. Define key constraints.
4. Define referential integrity constraints.
5. What is a table in relational database.
6. What is a Query
7. Define SQL
8. What is Data Dictionary
9. What is Data independence & what are the levels.
10. What are the types of attributes.
11. What is mapping cardinalities
12. What are the various data base languages in SQL?
13. List the data types in SQL.
14. What is Relational Model .
15. What is data definition language?
16. What is the syntax for creating a table in SQL?
17. How to modify or alter an existing table in SQL.
18. How to rename an existing table in SQL?
19. Define Data Manipulation Language.
20. List the DML commands in SQL.
21. What is subquery.
22. Define the Primary Key.
23. What is Foreign Key?
24. What are the characteristics of primary key?
25. Define view.

PART – B – 16 MARKS

1. What are the various data types in SQL? Explain them with example?
2. List and explain various database languages with example?
3. Explain DML with example?
4. Explain DDL with example?
5. Explain the Integrity Constraints in detail
6. Using SQL Query, Create a table named ai and store any 5 values with the column names S_No, Register_No, Student_Name, Marks and Grade.
   Also, Perform the following operations,
   i) Fetch Student_Name for the marks greater than 75 with a view named ds
   ii) Delete one value with the S.No 2.
   iii) Display the table after all the above-mentioned operations.