Register No.   Time: 3 Hours
                                                                         Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.   **(10 x 1 = 10)**

1. DDL stands for _____

2. In an ER data model, _____ is represented by diamonds.

3. UML stands for _____

4. SQL stands for _____

5. A _____ key is a field in one table that uniquely identifies a row of data.

6. Row in a database table is known as _____

7. TCL means _____

8. Minimal Super Keys are called _____ key.

9. Projection is _____ operation in relational algebra.

10. RDBMS stands for _____

II. Explain briefly. Answer any TEN questions.   **(10 x 4 = 40)**

1. What do you know about data independency?

2. What is a Query in terms of relational data base?

3. Write a short note on Normalization.

4. Write the basic structure of select statement.

5. Write a short note on cardinality.

6. What do you mean by data?

7. Write a short note on First Normal Form.

8. Write a note on database schema.

9. What is dead lock.

10. What is nested queries.

11. What are the properties of a relational table?

12. What is shadow paging?

13. Differentiate between DDL and DML.

III. Answer any FIVE questions. Explain in detail.   **(5 x 10 = 50)**

1. Explain fundamental operations performed on relational table.

2. Explain selection control structure in PL/SQL.

3. Explain relational data model in detail.

4. List out the different types of joins in DBMS with examples.

5. Differentiate between DBMS and RDBMS. Explain the features of both in detail.

6. Explain the different data models.

7. Explain the concept of concurrency control and lock based protocol.

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