



**CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY**

(Under Government of Kerala)

**CEP EXAMINATION-OCTOBER 2022**

**Subject: RDBMS**

**DCA**

Register No.

Time: 3 Hours

Maximum Marks:100

**I. Fill in the blanks. Answer ALL questions.**

**(10 × 1 = 10)**

1. Full form of RDBMS \_\_\_\_\_
2. In terms of database, DML stands for data making language, true or false \_\_\_\_\_
3. Column of a table in a database table is called \_\_\_\_\_
4. In \_\_\_\_\_ NF remove columns that are not dependent upon the primary key.
5. In \_\_\_\_\_ computing, all processors have access to a shared memory.
6. The degree of a relation is defined as the number of \_\_\_\_\_ in the relation schema.
7. The dependency rules specified by the database designer are known as \_\_\_\_\_
8. The \_\_\_\_\_ clause is used to list the attributes desired in the result of a query.
9. Multiple conditions in the where clause are separated by the “and” keyword, true or false \_\_\_\_\_
10. Student (ID, name, dept name, mark), In this query \_\_\_\_\_ attribute is considered as primary key.

**II. Explain briefly. Answer any TEN questions.**

**(10 × 4 = 40)**

1. Briefly explain the concept of data.
2. Write a short note on DDL.
3. What is the difference between physical data independence and logical data independence?
4. Briefly explain about entity with examples.
5. Write a short note on relational algebra.
6. Briefly explain about ER-Model.
7. Brief the concept of integrity constraints.
8. Write a short note on database trigger.
9. Brief about DML commands in SQL with examples.
10. Briefly explain the basic structure of SQL.

11. What do you mean by commit and rollback.
12. Write a short note on file organization.
13. Briefly explain about the different sections PL/SQL block.

**III. Answer any FIVE questions. Explain in detail.**

**(5 x 10 = 50)**

1. Explain the functions and characteristics of DBMS.
2. What do you mean by keys? Explain different types with examples.
3. What is normalisation? Explain its advantages. Explain about 1NF, 2NF and 3NF.
4. Explain in detail about database system architecture.
5. Explain the following
  - a) ACID properties.
  - b) Referential integrity
6. Explain in detail about Deadlock and its Prevention.
7. Explain different types join in SQL with example.

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