



**CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY**

(Under Government of Kerala)

**CEP EXAMINATION-FEBRUARY 2019**

**Subject: RDBMS**

**PGDCA II**

Register No.

Time: 3 Hours

Maximum Marks:100

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

**(10 x 1 = 10)**

1. Set of permissible values for an attribute is called \_\_\_\_\_
2. \_\_\_\_\_ is a collection of multiple relations.
3. No of attribute in a relation is called \_\_\_\_\_ of the relation.
4. Minimal super key is called \_\_\_\_\_
5. DDL stands for \_\_\_\_\_
6. The smallest piece of meaningful information in a file is called \_\_\_\_\_
7. The \_\_\_\_\_ provides a set of operations that take one or more relations as input and return a relation as an output.
8. Student (IDnumber, name, dept name, mark), in this query \_\_\_\_\_ attribute form the primary key?
9. The term \_\_\_\_\_ is used to refer to a row.
10. \_\_\_\_\_ statement is used to add, delete or modify columns in an existing table.

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

**(10 x 4 = 40)**

1. What do you mean by data redundancy?
2. Write a short note on characteristics of RDBMS.
3. What are the different levels of data abstraction?
4. What do you mean by?

a) Logical data independence

b) Physical data independence

5. Write a short note on cardinality.
6. Write a short note on hashing.
7. What is the purpose of ACID properties?
8. What do you understand by cardinality and why it is used?
9. What is the difference between Single valued and multi valued attributes?
10. What is the difference between strong and weak entity?
11. What is Data Redundancy?
12. What are string functions in SQL?
13. What do you understand by the term concurrency?

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

**(5 x 10 = 50)**

1. Explain in detail about ER model.
2. Explain in detail about different types of file organization.
3. What do you mean by Normalization? Explain different types.
4. Explain the following
  - a) Referential integrity
  - b) Functional dependency
5. Explain various operators available in SQL.
6. Explain in detail about deadlock.
7. Explain the following keys with examples
  - a) Primary key
  - b) Candidate key
  - c) Foreign key

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