4. a) Explain Codd’s 12 rules

**OR**

 b) Write about the operators used in Relational Algebra

5.a) What are Normal Forms? Explain Boyce Codd Normal Form

 with an example

**OR**

 b) Discuss about different types of anamolies that arise in the

 database due to redundancy

6. a) Explain the following in SQL with examples

 i. Select Clause

 ii. Inset into Clause

 iii. Constraints in SQL

 iv. Group by Clause

 v. Join Clause

**OR**

 b) Write in detail about Data Manipulation Statements with examples

 [54/416]

**[Dec-16]**

 **[SDDCA-103]**

**DCA EXAMINATION**

**INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS**

(Effective for the admitted batch 2009-10)

**Time: 3 Hours Max.Marks: 70**

------------------------------------------------------------------------------------------**Instructions:** All parts of the section must be answered in one place only.

 Figures in the right hand margin indicate marks allotted.

------------------------------------------------------------------------------------------

**SECTION-A**

1. Answer any **Four** of the following (4x5=20)

 a) What is the purpose of Database Management System?

 b) Distinguish between single valued and multi valued attributes

 with examples

 c) Write about Functional Dependency

 d) Define referential integrity constraints

 e) Explain different types of views

 f) State the need of normalisation for a database

 g) What is schema? Explain the purpose of database schema

**SECTION-B**

Answer all questions: (5x10=50)

2. a) Explain the structure and uses of a database

**OR**

 b) Explain the three level architecture of database management

 system

3. a) Explain the advantages and disadvantages of

 i. Hierarchial Model

 ii. Relational Model

**OR**

 b) What is an entity? Explain Entity-Relationship model with an

 example

4. a) Explain Codd’s 12 rules

**OR**

 b) Write about the operators used in Relational Algebra

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