<u>**Class Test Exam: M.M: 15 marks (SET-B)**</u>

<u>**Course: Database Management Systems**</u>

Name:

Roll Number:

Section:

MCQs (2 marks)

Q1. Related fields in a database are grouped to form a

      A.Data file

      B.Data record.

      C.Menu.

      D.Bank.

Q2. The way a particular application views the data from the database that the application uses is a

    A.Module.

    B.Relational model.

    C.Schema.

    D.Sub schema.

SUBJECTIVE (3 marks)

Q1. Define the 3 commands in DDL and explain each with examples.

Q2. Define the terms: Relation State, ACID properties, Data Independence, Candidate Key

Q3. How Facebook or other popular social networking platform stores the data records.

ER Diagram. (5 marks)

Draw ER diagram and its extensions-generalization and specialization cases (EER) in the same for Canteen Management System. Show disjoint/overlapping cases clearly

Relational Algebra (5 marks)

BOOKS(DocId, Title, Publisher, Year)

STUDENTS(StId, StName, Major, Age)

AUTHORS(AName, Address)

borrows(DocId, StId, Date)

has-written(DocId, AName)

describes(DocId, Keyword)

Q1. Find the title of the oldest book.

Q2. Which books have both keywords 'database' and 'programming'?

Q3. List the authors of the books the student 'Smith' has borrowed.