Reg. No._____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER LATERAL MCA DEGREE EXAMINATION, DEC 2016

Course Code : RLMCA205

Course Name: DATABASE MANAGEMENT SYSTEMS

Max. Marks:60   Duration: 3 Hours

PART A

Answer All Questions
Each question carries 3 marks

1. List four significant difference between File processing and Dbms?   (3 marks)

2. Who is a DBA? Responsibilities of a DBA?   (3 marks)

3. Creating and Modifying Relations Using SQL explain with appropriate examples?

                                                                                                       (3 marks)

4. What are they two reasons for using View? Write advantage of Views?   (3 marks)

5. Define Null Value how do you retrieve null value from a database?   (3 marks)

6. What are they Problems with update anomalies discuss with example?   (3 marks)

7. When a Schedule is Serilizable?   (3 marks)

8. On what kind of data Data mining is performed?   (3 marks)

PART B

Answer any one question from each module. Each question carries 6 marks

7 a. Describe how data is represented and accessed in a DBMS?

OR

7b. Explain about Relation and Relation set?   (6marks)

8 a. With suitable example explain the operations in Relational Algebra?

OR

8b. Discuss about Integrity constraints over relation?   (6marks)

9 a.Consider the following relations

        EMPLOYEE (Emp id, Name, City, DOB, Designation, Dept. No.)

        DEPARTMENT(Dept No, Dept Name, Manager, Emp id)

        PROJECT(Proj no, Proj Name, Dept No)

        WORKS ON(Emp id, Proj No, Hours worked)

SALARY(Emp id, salary)

Write SQL statement using nested queries

     i) List the name of employees whose salary is greater than the salary of all the employees working under dept 5.

     ii) List all employees who reside in the same city as that of their manager.

<center>OR</center>

9b. Illustrate with suitable examples declaring and invoking SQL functions?   (6marks)

10a. FDs are constraints that are derived from the meaning and inter relationships of the data attributes. Justify?

<center>OR</center>

10b. A relation is said to be in particular normal form, if it satisfies a certain specified set of Constraints. Explain with suitable examples?   (6marks)

11a. With a neat sketch explain the states of Transaction?

<center>OR</center>

11b. Illustrate Dead lock and Conflict Serializiability with example?   (6marks)

12a. Data modelling for data ware house? Explain in detail?

<center>OR</center>

12b. Explain about Association rule mining?   (6marks)