(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 7127   Roll No. [| | | | | | | | | |]

M.B.A.

(SEM. III) ODD SEMESTER THEORY EXAMINATION 2010-11

DATABASE MANAGEMENT SYSTEM

MBAIT1

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1017   Roll No. [| | | | | | | | | |]

(SEM. III) ODD SEMESTER THEORY EXAMINATION 2010-11

DATABASE MANAGEMENT SYSTEM

Time : 3 Hours   *Total Marks : 100*

Note :— (1)   Attempt **all** questions.

(2)   All questions carry equal marks.

1.   Attempt any **four** parts of the following :   **(5×4=20)**

 (a)   Discuss the concept of Database and Database Management System (DBMS).

 (b)   Discuss components of Database Management System (DBMS).

 (c)   Discuss various types of data model with the help of example.

 (d)   Discuss organization of database and advantages of DBMS.

 (e)   Explain aggregate functions of SQL with your own example.

 (f)   How can we access data remotely in Relational Database Management System ?

2. Attempt any **two** parts of the following : **(10×2=20)**

   (a) Discuss the concept of Relational Data Model.

   (b) Enlist and explain various file organization techniques.

   (c) What are the concepts behind relational algebra and relational calculus ? How are they different ?

3. Attempt any **two** parts of the following : **(10×2=20)**

   (a) Discuss the concept of normalization and also explain in detail second normal form.

   (b) What is the highest normal form of the following relations ?

   R_1 (A, B, C) with A$\rightarrow$ B, A$\rightarrow$ C and C$\rightarrow$ B.

   (c) Describe the six clauses in the syntax of an SQL query, and show what type of construct can be specified in each of the six clauses. Which of the six clauses are required and which are optional ?

4. Attempt any **two** parts of the following : **(10×2=20)**

   Consider the following database :—

   Employees (e_no, e_name, address, basic_salary, job_status)

   Projects (p_no, p_name, nos_of_staff)

   Work_in (p_no, e_no, p_job)

   (a) Create the database using the SQL commands.

   (b) Write SQL command to retrieve all the rows in a table.

   (c) Elaborate the concept of client server in the database.

5. Attempt any **two** parts of the following : **(10×2=20)**

   (a) Discuss the role of database administrator.

   (b) Discuss the concept of access control in Database Management System (DBMS).

   (c) Elaborate the concept of Data Warehousing and Data Mining.