Exam. Code : 404402

Subject Code : 7736

Diploma in Computer Application (Full Time)

2nd Semester

DATABASE MANAGEMENT SYSTEMS

Paper—I

Time Allowed—3 Hours]   [Maximum Marks—50

Note :— Attempt any *five* questions. All questions carry equal marks.

1. Define DBMS. Discuss various components of DBMS.
   10

2. Discuss the relational model approach for data retrieval in DBMS. Explain its relative advantages and disadvantages as compared to hierarchical approach.
   10

3. (a) What is the need of database security ? Discuss the various measures taken for database security and protection.

   (b) What is the use of Distributed Database ? 6,4

4. (a) Discuss DDL, DCL and DML commands (three each) of SQL * PLUS.

   (b) Explain various built-in functions of Oracle 10g.
   5,5

5. Explain briefly the following :

   (i) Join Methods and Sub Query

   (ii) Object oriented features of Oracle 10g.   10

6. (a) What is the relationship between SQL and PL/SQL ? What are the advantages of using PL/SQL ? How variable declaration takes place in it ?

   (b) How cursors are used in PL/SQL ?   6,4

7. (a) Define procedure and functions. How these are created and executed ? What are their advantages ?

   (b) What is a trigger ? Discuss various types of triggers.   6,4

8. Write short notes on the following :

   (i) Data Base Integrity

   (ii) E-R Diagrams

   (iii) Knowledge Base/Expert Systems.   10