

Third Year – fifth Semester

Part II-Computer Science

Paper V— DATABASE MANAGEMENT SYSTEM

Time : Three hours

Maximum : 75 marks

1. What are the objectives of DBMS. Explain about the classification of Database management system. (15)
2. (a) Write the differences between file based system and DBMS. (5)  
(b) Define data model? Explain Anis/Spark data model with neat diagram. (10)
3. Briefly explain the concept of ER diagram with suitable example. (15)
4. Explain the following with example
  - (a) Relationships in DBMS
  - (b) Attributes and Types
  - (c) Inheritance.
5. (a) Explain about the different relational algebra operations with examples. (7)  
(b) Define key in DBMS? Explain about the types of keys in Relational model (8)
6. Explain the following with examples
  - (a) Sub Query (4)
  - (b) Aggregate functions (6)
  - (c) Data types in SQL. (5)
7. Briefly explain about DDL (Data Definition Language) and DML (Data Manipulation Language) commands with syntax and examples. (15)
8. (a) Explain about the database triggers with different types of triggers. (10)  
(b) Write the PL/SQL program for addition of two numbers. (5)