

**Database Management System**  
**(CSE-201-E, Dec-05)**

**Note:** Attempt any five questions.

1. Define Database Management System. What are the advantages of DBMS over traditional file processing system? Explain.
2. a) Discuss in detail the various constructs used in ER diagram, giving suitable example.  
b) Define and distinguish between network and hierarchical models.
3. Define B-trees. How insertion and deletion is made in B-trees? Explain.
4. a) Discuss various relational algebraic operations available in relational model.  
b) What do you mean by a well formed formula?
5. What are the problems of bad database design? Write the procedure of normalizing database while discussing the various normal forms.
6. a) How decision about distribution of database is made? Explain.  
b) What are the features of Object Oriented Database Management System? Explain.
7. Define concurrency. What are the various methods of handling concurrency? Explain.
8. Define recovery. What is the need of performing recovery? Discuss the various methods of performing recovery.

allsubjects4you.com