

SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act,1956)

Course & Branch: B. Tech - IT

Title of the paper: Database Management System

Semester: V

Sub.Code: 112506

Date: 20-11-2006

Max. Marks: 80

Time: 3 Hours

Session: FN

PART – A

(10 x 2 = 20)

Answer ALL the Questions

1. Distinguish between data base manager and data base administrator.
2. What is a weak entity?
3. What are quantifiers? Give example.
4. Define functional dependency.
5. What are the two recovery techniques used for transaction failures?
6. List the types of fragmentation techniques used in distributed data base systems?
7. What is an occurrence tree?
8. What is a spatial data base?
9. What is a data warehouse?
10. What are the two components of an object?

PART – B

(5 x 12 = 60)

Answer ALL the Questions

11. What are the components of database system? Explain in detail with a neat diagram

(or)

12. Construct an ER diagram for university office. The office maintains data about each class, instructor, enrollment and time and place of class meeting. For each student-class pair a grade is recorded.
13. Explain in detail about the SQL commands.
(or)
14. What is domain-relational calculus? Also give the features of QBE with example.
15. Explain the two phase locking protocol with example.
(or)
16. Explain the fragmentation techniques used in distributed database.
17. What is a set in network datamodel? Explain the DML commands used in network datamodel.
(or)
18. Describe the features of Active and deductive databases.
19. Explain classification and prediction in detail.
(or)
20. Explain the design of object oriented database.