

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: 27-04-2007

Max. Marks: 80

Time: 3 Hours

Session: AN

PART – A

(10 x 2 = 20)

Answer ALL the Questions

1. Define DBMS.
2. What are the various types of attributes?
3. What is Outer Join and its types?
4. What is cursors in PL/SQL?
5. Define functional dependency.
6. Explain BCNF with example.
7. What is a system catalog?
8. What is a centralized DBMS?
9. What is temporal database?
10. What is a distributed computing system?

PART – B

(5 x 12 = 60)

Answer All the Questions

11. Explain the advantage of DBMS.
(or)
12. Construct an ER diagram for hospital with a set of patients and a set of doctors. A log of the various conducted test is associated with each patient. Also construct appropriate tables for each of the above ER diagram.
13. Explain with a suitable example that QBE is query language suitable for tree-structured relations.

(or)

14. Explain the features and functionality of MS-Access.
 15. Discuss the different types of transaction failures. What is meant by catastrophic failure?
- (or)
16. Describe the shadow paging recovery technique. Under what circumstances does it not require a log?
 17. Discuss how time is represented in temporal databases and compare the different time dimensions.
- (or)
18. How do spatial databases differ from regular databases?
 19. What are the main features of data mining tools?
- (or)
20. Describe the steps of building a warehouse.