

SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act,1956)

Course & Branch :B.E/B.Tech - CSE/DCS/IT/P-IT

Title of the Paper :Database Management Systems

Sub. Code :411506-412506-511506-512506-6C0100-6CPT0012

Time : 3 Hours

Max. Marks :80

Date :20/11/2009

Session :FN

PART - A

(10 x 2 = 20)

Answer ALL the Questions

1. Give an example for relationship instance.
2. What is meant by assertion?
3. What is the use of NULL values in databases?
4. Define: Trigger.
5. Give an example for transaction.
6. What is the use of log records?
7. Differentiate between consistency and coherence.
8. What is data dictionary used for?
9. Give two drawbacks of network model for DBMS.
10. What is OLAP?

PART – B

(5 x 12 = 60)

Answer ALL the Questions

11. Explain the concept of aggregation and generalization in data modeling with examples.

(or)

12. (a) Construct an E – R diagram for a car Insurance company whose customers own one (or) more cars.
(b) Compare ordered indices and hash indices.

13. (a) State Armstrong's axioms of functional dependency.
(b) Compare BCNF and 3NF.

(or)

14. Consider the following relational schema:
Employee (empno, name, office, age)
Books (isbn, title, authors, publisher)
Loan (empno, isbn, date)

Write SQL queries for the following:

- (a) List the employees who have borrowed any book published by "McGraw Hill"
(b) List the employees who have borrowed only the books published by McGrawHill.
(c) List the employees who have borrowed books on "C Programming" by any author.
15. Discuss about privileges and authorization provided by SQL.
(or)
16. What is two phase lock protocol? How is it implemented?
17. Explain Intraquery and Interquery parallelism and their related issues.
(or)
18. Give a brief overview of temporal and multimedia databases.
19. Explain the architecture of data warehousing and discuss some real applications.
(or)
20. Explain overloading and inheritance of tables with examples.