

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – STATISTICS

FIFTH SEMESTER – NOVEMBER 2009

ST 5403 - DATABASE MANAGEMENT SYSTEMS

Date & Time: 14/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

SECTION - A

Answer ALL questions

(10X 2 = 10)

1. Define database management systems.
2. What is transaction management?
3. Define the terms instances and schemas.
4. Write any two main functions of a database administrator.
5. What is meant by query evaluation engine?
6. Define the term file manager.
7. What are the clauses involved in the basic structure of an SQL?.
8. What is meant by referential integrating?
9. Define data mining.
10. What is meant by pattern evaluation module.

SECTION – B

(5 X 8 = 40)

Answer any FIVE questions

11. Explain the characteristics of the database system.
12. Describe the entity relationship model.
13. Explain the difference between physical and logical data independence.
14. Describe views and view definition in relational model.
15. Explain storage management.
16. Explain four different types of database –system users.
17. Describe the various components of the data warehousing.
18. Explain the following
 - (i) Subject oriented
 - (ii) Integrated
 - (iii) Non-volatile
 - (iv) Time-variant

SECTION - C

(2 X 20 = 40)

Answer any TWO questions

19. Explain the terms primary key, candidate key and super key with examples and bring out the differences between them.
20. Construct an entity relationship diagram for a car-insurance company that has a set of customers, each of whom owns one or more cars. Each car has associated with it zero to any number of recorded accidents.
21. What are set operations? Explain the various set operations available in SQL with an example each.
22. Explain the following
 - i) Operational data source(ODS)
 - ii) Data Warehousing
 - iii) Data Mart
 - iv) Meta data.
