LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **STATISTICS**

FIFTH SEMESTER – NOVEMBER 2011

ST 5403 - DATABASE MANAGEMENT SYSTEMS

Date : 12-11-2011 Time : 9:00 - 12:00	Dept. No. Max. : 100 Marks

PART - A

Answer ALL the questions   10 X 2 = 20

1. Define Schema.
2. List out any two database systems applications.
3. Define DML compiler.
4. What is data dictionary?
5. Give any two reasons why null values might be introduced into the database.
6. Why should we use primary key?
7. What is normalization?
8. Define the term intersect in relational algebra.
9. What is authorization?
10. What is data warehousing?

PART - B

Answer any FIVE questions   5 X 8 = 40

11. Explain the main functions of database administrator.
12. Explain logical operators in sql with illustrations
13. What are the major components of architecture of data mining?
14. Find the average, minimum, maximum, sum for the following table by using sql query.

	sno	sname	mark
1	1	raja	60
2	2	raju	70
3	3	john	80
4	4	ram	100
5	5	ravi	65

15. Define projection and give suitable example.
16. Explain the difference between physical and logical data independence.
17. Briefly explain relational databases, data warehouses, data cube and transaction database.
18. Explain the classification of data mining systems

PART – C

Answer any FIVE questions   **2 X 20 = 40**

19. What are major queries in DML? And explain with illustrations.

20. Construct an ER diagram for keeping track of the exploits of your favorite sports team. You should store the matches played, the scores in each match, the players in each match, and individual players statistics for each match.

21. Explain the following terms with appropriate examples:
    a) Union
    b) Intersect
    c) Difference
    d) Cartesian Product

22. Explain the major issues in data mining.

****