 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc.** DEGREE EXAMINATION - **COMPUTER SC.**

THIRD SEMESTER – **APRIL 2012**

# CS 3812 - DATA WAREHOUSING

Date : 21-04-2012 Dept. No. Max. : 100 Marks

Time : 1:00 - 4:00

**Part A**

**Answer ALL questions: 10 x 2 = 20**

1. Compare Operational system with Informational system under two valuable tasks.

1. State any three factors that indicate the continued growth in data warehousing.

3. List out the three benefits of quality data in data warehouse.

4. Why Meta data is said to be nerve center?

5. What is mean by data granularity in data warehouse?

6. Illustrate the difference between destructive merge and constructive merge.

7. Give 2 reasons why naming standards are important in data warehouse

Environment.

8. Define data clustering.

9. Write notes on decision trees.

10. Give reasons why data warehouse must be backup.

**Part B**

**Answer ALL questions: 5 x 8 = 40**

11 a) Why do data warehouses continue to grow in size, storing huge amounts of

data? Give any three reasons.

**(OR)**

b) Name 4 key issues to be considered while planning for a data warehouse.

12 a) Why do you think Meta data is important in data warehouse environment?

. List four Meta data types in each area of data acquisition, data storage and

information delivery.

**(OR)**

b)List four major requirements that metadata must satisfy. Describe each of these

four requirements.

13 a) Briefly explain multi dimensional analysis.

**(OR)**

b) Discuss star schema keys in detail.

14 a) Identify the classes of users who will use information, in detail.

**(OR)**

b) What are hyper cubes? How do they apply in an OLAP system?

15 a) Write notes on

( i ) Genetic algorithm

( ii ) Neural networks.

(iii ) Drill-down and Roll-ups.

**(OR)**

b) List five common provisions to be found in a good security policy.

**Part C**

**Answer any TWO questions: 2 x 20 = 40**

16 a) Discuss about the components of data ware house in its three major areas.

b) Explain the 4 parallel server options. List the benefits, features and limitations

of each.

17 a) What are hyper cubes? How do they apply in OLAP system?

b) State any two underlying methods for information delivery to satisfy the

requirements of all types of users.

18 a) Describe the physical design step activities.

b) Determine the major activities during data warehouse deployment.