LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc.** DEGREE EXAMINATION – **COMPUTER SCIENCE**

THIRD SEMESTER – NOVEMBER 2010

# CS 3812 - DATA WAREHOUSING

Date : 29-10-10 Dept. No. Max. : 100 Marks

Time : 9:00 - 12:00

**Part A**

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

1. List any two differences between the operational system and data warehouse.
2. Define the term facts in information package diagram.
3. What are the three major areas in the data warehouse?
4. Why Meta data is said to be a nerve centre of the data warehouse?
5. Define the term star index.
6. What is aggregate fact table?
7. Highlight any four services to be made available in the managed query environment.
8. What is data mining?
9. Define data clustering.
10. Why back up the data warehouse?

**PART B**

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

1. (a) Explain in detail the data staging component.

(OR)

(b) How do business requirements affect the choice of DBMS? Describe any three of the ways in which the selection of DBMS is affected.

1. (a) What are the four common methods for data movement within the data warehouse? Explain any two of these methods.

(OR)

(b) Briefly explain business Meta data.

1. (a) What are the three types of slowly changing dimensions? Compare and contrast Type 2 and Type 3.

(OR)

(b) Discuss any two forms of families of stars.

1. (a) How is the user classes named in a data warehouse? Explain any two in detail.

(OR)

(b) In detail, write about any three data mining techniques.

1. (a) Write short notes on Bit map index and B tree index.

(OR)

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

**PART C**

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

1. (a) List the significant trends in data warehouse. Explain any four in detail.

(b)Discuss the technical architecture with neat diagram?

1. (a) A dimension table is wide; the fact table is deep. Explain with example.

(b) List the data capture techniques with its advantages and disadvantages.

1. (a) Write an essay about OLAP models.

(b) List the types of pilot projects and explain any four in detail,

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