END TERM EXAMINATION

FOURTH SEMESTER [MCA] MAY –JUNE 2009

Paper Code: MCA-202	**Subject: Data Warehousing &Data Mining**
Paper Id-44202	**(Batch: 2004-2007)**

Time : 3 Hours   **Maximum Marks : 60**

Note: Part -I is compulsory. Attempt any one question from each parts(PartII-V)

Part I

Attempt any ten questions. Each question carries equal marks   2* 10=20
1. What do you mean by strategic information?
2. Explain the term Data warehouse
3. Why is metadata especially important in a data warehouse?
4. What do you mean by web-enabled data warehouse?
5. Explain dimensional hierarchies with two examples.
6. Explain data granularity in a data warehouse
7. Write two advantages of Star Schema.
8. What is meant by slice and dice? Give examples.
9. Differentiate between ROLAP and MOLAP.
10. In what way Data warehouse is a pre-requisite for Data mining?
11. How is the Data mining is primary step in the process of knowledge discovery?
12. Explain cleaning and integration operations of Data mining.

PART-II

Q1. a) Draw and Explain Basic Building Blocks of Data warehouse.
     b) What are the " Seven deadly sins" of building a Data warehouse?

Q2   a) How Data warehousing categorizes the business problems?
     b) What are the three major types of metadata in a data warehouse? Explain the purpose of each type.   1 * 10 =10

PART-III

Q1. How can we represent multidimensional data model in Data warehousing? Explain
     i)   Data cube ii) Fact Table ii) Lattice of Cuboids

Q2. What is Schema? Explain and Compare Star and Snow Flake Schema for Sales department of LG Electronics Ltd with the dimensions: Time, Branch, Item location, City and Supplier.
                                                                                1 * 10 =10

PART –IV

Q.1 a) What are the basic OLAP operations of Multidimensional Data Model? Explain each of them with example.
  b) Draw and Explain architecture of MOLAP.

 Q2. a) What are Multidimensional Databases (MDDBS)? How do these store data?
     b) Compare and summarize the major distinguished feature between OLTP and OLAP.

PART-V

Q1. a) How neural networks are used in data mining? Explain

b) What is Data mining? Briefly explain Knowledge Discovery Process of Data mining with the examples.

Q.2. a) Define Data mining and motivation for Data mining?

b) What are the basic data mining techniques? Explain any two with example.