USN ☐☐☐☐☐☐☐☐☐☐

NEW SCHEME

Fifth Semester MCA Degree Examination, July 2007

Data Mining and Warehousing

Time: 3 hrs.]

[Max. Marks:100

Note : *Answer any FIVE full questions.*

1   a. Discuss the differences between operational Database system and Data warehouses.
        (10 Marks)
     b. What is Data cube? Explain its implementations and application with example.
        (10 Marks)

2   a. How are concept Hierarchies useful in OLAP? Explain with example.   **(12 Marks)**
     b. Describe various methods for handling missing values in the tuples and attributes.
        (08 Marks)

3   a. Explain a data mining query language primitive with example in detail.   **(15 Marks)**
     b. What are the desired architectures for data mining system? Explain briefly. **(05 Marks)**

4   a. Define association rule mining and explain with an example.   **(10 Marks)**
     b. Discuss the approaches to mining multilevel association rules.   **(10 Marks)**

5   a. Explain an algorithm to generate decision tree from the given training samples with
        examples.   **(12 Marks)**
     b. Explain Back Propagation algorithm.   **(08 Marks)**

6   a. Discuss the types data is cluster analysis.   **(10 Marks)**
     b. Explain the K-mean and K-medias methods of partitioning.   **(10 Marks)**

7   Explain the hierarchical clustering methods in detail.   **(20 Marks)**

8   a. What are some specific examples of the use of data mining for applications in science
        and business?   **(12 Marks)**
     b. Explain K-nearest Neigher classification.   **(08 Marks)**

*****