

UNIT-I

Roll No. .... Total Pages : 3

MCA/M-15 10217

DATA WAREHOUSING AND DATA MINING

Paper-MCA-402

Time Allowed : 3 Hours] [Maximum Marks : 80

Note : Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory.

Compulsory Question

- 1. (a) Differentiate between Fact and Dimension Tables.
- (b) Differentiate between Continuous and Categorical data with suitable example.
- (c) How you will integrate Data Warehousing to Data Mining?
- (d) Briefly explain different data mining system architectures.
- (e) Write a note on Tree pruning.
- (f) What do you mean by Support and Confidence?
- (g) Write a note on Interval-Scaled variables.
- (h) What do you mean by Divisive approach of clustering? 8x3=24

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- 2. (a) Define Data Warehouse. What do you know about the time lines of Data Warehousing development? 7
- (b) Illustrate the different OLAP operations with suitable example. 7
- 3. Discuss in detail the steps for designing, construction and implementation of Data Warehouse. 14

UNIT-II

- 4. (a) What do you mean by Data mining? Discuss Data Mining functionalities. Explain the major issues in the process of Data Mining. 7
- (b) Why we preprocess the data? Discuss the strategies of Data reduction. 7
- 5. (a) What defines a Data mining task? Discuss the various Data mining primitives. 7
- (b) Discuss the methods for Class comparison and implementations. How class comparison description will be presented? 7

UNIT-III

- 6. What are the issues in Classification? State an example for classification using prediction. 14
- 7. What do we mean by market basket analysis and how multidimensional association rules can be generated from relational database and Data Warehouse? 14

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UNIT-IV

8. (a) List the name of available Data Mining tools. Sketch a comparative chart among them on the basis of their performance. 7
- (b) Discuss the potential application areas for Data Mining implementation. 7
9. Explain similarity and distance measures for clustering algorithms. Discuss model-based method for clustering. 14