

MCA/M08
Data Mining and Warehousing
MCA -402

Time : 3 Hours

MM:50

Note:- Attempt Five questions in all, selecting One question from each unit.

UNIT-I

- 1(a) What is Data Warehousing and why is it important for decision support 5
- (b) Discuss the major factors that necessitate the data warehousing in many organizations today 5
- 2(a) What is “Multidimensional Data Model”? What kind of analysis does it facilitate? 4
- (b) Describe various types of schemas used for representing multidimensional data. 6
- 3 Define the following:
 - (a) Data Cubes
 - (b) Fact and Dimension Tables
 - (c) Measures and Dimensions
 - (d) Meta Data
 - (e) Data Mart 2each
- 4 Describe various steps used for the design and construction of data warehouses. Also discuss methods for the implementation of data warehouse systems. 10

UNIT-II

- 5 Describe various stages of knowledge Discovery Process. What is the role of data mining in the KDD process ? 10
- 6 What do you mean by “Data Processing”? Why processing is needed? Describe various forms of data processing. 10
- 7(a) How do we find interesting pattern using data mining? What is the criteria for interestingness? Explain 6
- (b) Give classification of Data Mining Systems. 4

UNIT-III

- 8(a) What is ‘Association Rule’? Discuss various types of Association Rules. 4
- (b) What is meant by ‘Association Rule Mining’? Explain by using a suitable example. 6

- 9 Discuss various methods used for ‘Data Classification and Prediction’ 10
- 10 Write short notes on the following:-
- (a) Mining Association Rule in Transaction Databases.
 - (b) Applications of Data Mining
- 5each