

MCA/M06
Data Mining and Warehousing
MCA -402

Time : 3 Hours

MM:50

Note:- Attempt any Five questions in all, All questions carry equal marks.

- 1 Define data warehouse. What are the components of a data warehouse? Give an overview of the evolution of data warehouse.
- 2 Differentiate between following:
 - (a) Descriptive and predictive data mining
 - (b) On Line Analytical Processing & On Line Transaction Processing.
- 3(a) What is data mining? What are the major issues in data mining? Explain.
(b) How do we find out the interesting patterns using data mining? What are the criteria for interestingness? Explain
- 4 Write short notes on following:
 - (a) Data Mart
 - (b) Constraint based association mining
- 5 Define following:
 - (a) Data cubes
 - (b) Aggregations
 - (c) Fact tables
 - (d) Measures
- 6 What are the important issues in the business data warehouse? Discuss the steps to carry out to populate the data warehouse .
- 7(a) What is analogy between virtual cubes in data warehouse and views in relational databases?
(b) What are the benefits to the end user of a data warehouse?
- 8 What do you understand by association rules? Discuss the mining of single dimensional Boolean Association rules.
- 9 What do you understand by classification? What are the important issues in it? Explain the classification by back propagation.
- 10 (a) What is the need of data preprocessing? What are the different steps in data preprocessing? Explain.
(b) What are the components of a typical data-mining algorithm for association rules? Explain.