

MCSE - 301(A) M.E./M.Tech.

III Semester

Examination, December 2014

Data Warehousing and Mining (Elective-I)

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) What is meant by data transformation? What are the various ways of data transformation? 7
b) Describe various methods used for cleaning data before it is loaded in the data warehouse. 7
2. a) What is data mining? Explain how the evolution of database technology lead to data mining. 7
b) Differentiate between multi-level and multi-dimensional association rules. 7
3. a) Write an algorithm for decision tree induction. Give important characteristics of decision tree induction algorithms. 7
b) Write an algorithm for discovering item sets without candidate generation. 7
4. a) What is text mining? How is it different from web content mining? 7
b) Discuss various issues regarding classification and prediction. 7
5. a) What is defuzzifications? Explain all the methods that are used for defuzzification. 7
b) What is genetic algorithms? Explain the working principle of Genetic algorithms. 7
6. a) What is concept of hierarchy? How is it related to web mining? 7
b) What is clustering? What are the different categories of clustering methods? 7
7. a) What is large database? How it is differ from database. Discuss? 7
b) Differentiate between K-means and K-medoids partitioning methods. 7
8. Write short notes on (any four) 3 ½ * 4=14
 - a) Snow flake schema and fact constellation
 - b) Motion analysis
 - c) Time series analysis
 - d) Data Mart and Distributed Data Mart
 - e) Outlier analysis.