

Exam.Code:1007

Sub. Code: 7717

1128

M.E. (Information Technology)
Third Semester
MEIT-315: Advanced Data Mining

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Define the following:-
- a) Why is data warehouse said to be non-volatile collection of data?
 - b) Define any two techniques of data smoothing.
 - c) What do you understand by market basket analysis?
 - d) Why is tree pruning required in decision tree induction?
 - e) What is embedded data mining? (5x2)

UNIT – I

- II. a) List out the steps of the data warehouse design process.
 b) Differentiate between enterprise warehouse, data mart and virtual warehouse. (5,5)
- III. a) Discuss the major features and benefits of parallel RDBMS.
 b) Distinguish between roll-up and pivot OLAP operations. (5,5)
- IV. a) Elaborate the data reduction strategies.
 b) What is concept description? Explain data generalization and summarization. (5,5)

UNIT – II

- V. a) Elaborate the concepts of the dashboards and balance scorecards.
 b) Explain the major components of BI infrastructure. (5,5)
- VI. a) What is a data cube? Explain the significance of dimensions and facts in data cubes?
 b) Elaborate the applications of data mining in e-commerce. (5,5)
- P.T.O.

(2)

- VII. a) Discuss any two techniques for improving the efficiency of Apriori algorithm.
b) How are strong association rules generated from frequent item sets?
c) Explain Bayesian approach for classification. (4,2,4)

x-x-x