

Exam.Code:1007

Sub. Code: 7717

2021

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. Answer the following:-

- a) Discuss the pros and cons of snowflake schema over star schema.
- b) Decision Tree Induction is a linear model or a non-linear model? Justify your answer.
- c) Differentiate between Classification and Association.
- d) What is Metadata? Give some examples.
- e) What is data discretization? Explain using example. (5x2)

UNIT – I

- II. a) Illustrate the use of different components of a data warehouse using suitable examples.
b) Compare Data Warehouse and transactional database system using examples. (2x5)
- III. a) How can Data Warehouse be mapped to Multiprocessor Architecture? Explain using a real life case study.
b) How are OLAP operations performed on multidimensional databases? Demonstrate using suitable examples. (2x5)
- IV. a) Demonstrate various methods for performing Data cleaning and Data reduction using examples.
b) Compare mining class comparisons and mining descriptive statistical measures using examples. (2x5)

UNIT – II

- V. a) Implement Apriori algorithm for a real-life problem.
b) Demonstrate Embedded data mining using a real-life case study. (2x5)

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- VI. a) What role Data warehousing plays in BI? Justify your answer using an example.
b) Compare various data integration approaches using suitable examples. (2x5)
- VII. a) Analyse and discuss various tools for Enterprise Reporting using a real-life case study.
b) Implement and compare Decision Tree Induction and K-nearest neighbour classification techniques using an example. (2x5)

x-x-x