FACULTY OF ENGINEERING
B.E. 4/4 (CSE) (II Semester) (New) (Main) Examination, June 2010
DATA MINING

Time: 3 Hours

[Max. Marks: 75]

Note: Answer all questions from Part A, answer any five questions from Part B.

PART - A (25 Marks)

1. What are the steps in a KDD process? 2
2. Give various techniques for data transformation. 2
3. What is information gain? 2
4. How do you perform class comparison? 2
5. Explain the criteria for classifying association rules. 3
6. Write a short note on linear regression. 3
7. Write a short note on estimation of classifier accuracy. 3
8. How do you compare various classification methods? 3
9. Distinguish between data characterization and data discrimination. 2
10. Write a short note on OLAP servers. 3

PART - B (50 Marks)

11. Discuss the Apriori algorithm in detail. 10
12. a) Explain the architecture of a data mining system. 5
    b) Explain on what kind of data is data mining performed. 5
13. Explain the back propagation algorithm in detail. 10
14. Describe the CURE algorithm. What is its advantage? 10
15. What are the various types of data in cluster analysis? How do you compute their distances? 10
16. a) Describe the process of a data warehouse design. 5
    b) What is a measure? How are they computed? 5
17. Describe in detail the various data reduction techniques. 10

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