



Date: 02-11-2018  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**PART A**

**Answer the questions.**

**(10x2=20)**

1. What are the steps involved in knowledge discovery?
2. What is the purpose of data pre-processing?
3. What is market basket analysis?
4. Define frequent pattern mining?
5. State the differences between classification and prediction.
6. List out the different classification methods.
7. Define outliers.
8. What is cluster analysis?
9. How does the telecom industry use data mining techniques to attract customers?
10. List the common data mining application domains.

**PART B**

**Answer all the questions**

**(5x8=40)**

11a. Explain the data characterization and data discrimination with examples.

**(OR)**

b. Describe how missing values are handled during data pre-processing.

12a. Explain the Apriori algorithm for finding frequent item sets.

**(OR)**

b. Compare and contrast the different pattern evaluation methods.

13a. State the issues regarding classification and prediction.

**(OR)**

b. Discuss about classification by back propagation with an algorithm.

14a. Discuss any one partitioning method with an example.

**(OR)**

b. Write a short note on Grid based Methods.

15a. Discuss in detail the applications of data mining in intrusion detection and prevention.

**(OR)**

b. Discuss the significant trends in Data mining.

### **PART C**

**Answer any two questions**

**(2x20=40)**

16a. Explain the major issues in data mining systems.

b. Discuss in detail about mining various kinds of association rules.

17a. Give a detailed description of Bayesian classification.

b. Explain density based methods with an example.

18a. Write an essay about the social impacts of data mining.

b. Discuss classification by decision tree induction with an example.

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