



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**B.Sc. & B.C.A. DEGREE EXAMINATION – COMPUTER SCIENCE & APPLI.**

FIFTH SEMESTER – NOVEMBER 2015

**CS / CA 5405 - DATA MINING**

Date : 13/11/2015  
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

**SECTION-A**

**ANSWER ALL THE QUESTIONS:**

**(10\*2=20)**

1. What is Data Mining?
2. Define Data cube.
3. What is association rule mining?
4. Differentiate association rule mining from correlation.
5. What is prediction?
6. Differentiate supervised learning and unsupervised learning.
7. What is cluster analysis?
8. Define outlier.
9. How data mining is used for Intrusion detection?
10. What do you mean by Data privacy?

**SECTION-B**

**ANSWER ALL THE QUESTIONS:**

**(5\*8=40)**

11. a) Explain Data Mining Functionalities.  
(OR)  
b) Explain about data transformation.
12. a) Explain the classification of Association Rule Mining.  
(OR)  
b) Explain about multi level Association Rules.
13. a) Explain the process of classification.  
(OR)  
b) Explain the Bayesian classification with example
14. a) Describe the types of data in cluster analysis.  
(OR)  
b) Explain the Agglomerative and Divisive clustering methods.
15. a) Explain the trends in data mining.  
(OR)  
b) Explain the applications of Data Mining in Telecommunication Industry.

## SECTION-C

**ANSWER ANY TWO:**

**(2X20=40)**

16. i) Explain in detail about Data Cleaning. (10)
- ii) Discuss Apriori algorithm with a suitable example. (10)
17. i) Explain the concept of back propagation for classification. (10)
- ii) Explain the K-Means clustering in detail (10)
18. i). Discuss the concept of outliers in detail. (10)
- ii) Explain the social impact of data mining. (10)

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