# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc.,B.C.A.**DEGREE EXAMINATION – **COMPUTER SCIENCE& COMP APP.**

FIFTHSEMESTER – APRIL 2018

## CS/CA 5405- DATA MINING

Date: 10-05-2018          Dept. No.                    Max. : 100 Marks
Time: 09:00-12:00

## PART A          (10*2=20 Marks)

Answer ALL the questions.

1. Define: Data Mining.

2. Define: Data Warehouse.

3. State any two constraint based association mining.

4. What is a Null transaction?

5. What is a prediction?

6. Differentiate between Multilevel and Multi-dimensional association rules.

7. Define Bayes' theorem.

8. What is Clustering?

9. How is Data mining used in Telecommunication Industry?

10. List any two applications of Data mining.

## PART B          (5 * 8=40 Marks)

Answer ALL the questions.

11. a. Explain the major issues of Data mining.

(OR)

b. Describe about Data Integration and Transformation.

12. a. Explain about Constraint based mining.

(OR)

b. Explain about Mining Multidimensional association rules using static discretization.

13. a. Explain the issues regarding Classification and Prediction.

(OR)

b. Explain about Bayesian classification.

14. a. Explain the typical requirements of clustering in Data mining.

(OR)

b. Discuss about Hierarchical methods.

15. a. How is a Data mining useful for Biological Data analysis? Explain.

(OR)

b. Explain about the social impacts of Data mining.

**PART C**      **(2 \* 20= 40 Marks)**

<u>Answer any TWO questions.</u>

16 a. Explain about Data mining functionalities. What kind of patterns can be mined?

   b. Discuss briefly about mining various kinds of association rules.

17 a. Explain in detail about classification by back propagation method.

   b. Explain about the types of data in cluster analysis.

18 a. Explain the techniques of Data reduction.

   b. Discuss about the trends in Data mining

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