



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – NOVEMBER 2014

CS 5405 / CA 5405 - DATA MINING

Date : 10/11/2014
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

ANSWER ALL QUESTIONS:

10*2=20

1. Write down the steps involved in KDD process.
2. Define Data warehouse.
3. What do you mean by Market Basket Analysis?
4. Define the term Iceberg queries.
5. What is Data prediction?
6. List out the classification methods.
7. Define Cluster analysis.
8. Expand the following terms: a) BIRCH b) OPTICS.
9. What are the tools used for detection of money laundering and other financial crimes?
10. What is webwide tracking?

PART-B

ANSWER ALL QUESTIONS:

5*8=40

11. a) Write a short note on Data cleaning.
(Or)
b) Explain and draw the architecture of a typical data mining system.
12. a) How to improve the efficiency of Apriori algorithm?
(Or)
b) Explain the algorithm for finding frequent item sets using candidate generation.
13. a) Discuss the Decision tree induction with an algorithm.
(Or)
b) Briefly explain the issues regarding Classification and Prediction.
14. a) Write a short note on Outlier analysis.
(Or)
b) List down and explain any one of the major Clustering method.
15. a) Is Data mining a threat to privacy and Data security?
(Or)
b) Discuss the significant trends in Data mining.

PART-C

ANSWER ANY TWO QUESTIONS:

2*20=40

16. a) Explain in detail about the different data repositories on which data mining can be performed.
b) Discuss in detail about mining various kinds of Association rules.
17. a) Give detailed description of Bayesian Classification.
b) Enlist and explain the types of data in Cluster analysis.
18. a) Write an essay about the Applications of Data mining.
b) Illustrate the frequent item sets using an FP tree by pattern fragment growth.
