



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – APRIL 2017

CS 5405/ - DATA MINING

Date: 06-05-2017
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

SECTION-A

ANSWER ALL THE QUESTIONS:

(10*2=20)

1. What is the purpose of Data mining?
2. List any four major issues in Data Mining Systems.
3. Differentiate between support and confidence.
4. Define Iceberg Queries.
5. List out the various attribute selection measures.
6. Differentiate between supervised learning and unsupervised learning.
7. What are the types of data in Cluster Analysis?
8. What is Outlier?
9. How is data mining used for Intrusion detection?
10. What is Data Security?

SECTION-B

ANSWER ALL THE QUESTIONS:

(5*8=40)

11. a) Explain the steps of Knowledge Discovery in Databases with a neat sketch.
(Or)
b) How is data cleaning performed? Explain.
12. a) What is Association Rule Mining? Explain the classification.
(Or)
b) Explain the approaches to mining Multilevel Association rules.
13. a) How is classification done using IF – THEN rules.
(Or)
b) Explain the concept of Bayesian classification.
14. a) Define and classify Partitioning methods. Explain any one method in detail.
(Or)
b) Write a short note on Grid based clustering method.
15. a) Explain the trends in data mining.
(Or)
b) List out the applications of Data mining and explain any one in detail.

SECTION-C

ANSWER ANY TWO:

(2*20=40)

16. a) Explain Data Integration and Transformation. (10)
b) Write the algorithm to discover frequent itemsets without candidate generation and explain it with an example. (10)

17. a) Explain the various steps in Decision tree induction. (10).
b) Explain about Back propagation algorithm with an example. (10)

18. a) Discuss the social impacts of Data mining systems. (10)
b) Explain Apriori algorithm with a suitable example. (10)

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