



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2016

CA 5807 - DATA MINING

Date: 08-11-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL Questions

(10 * 2= 20)

1. What is Data reduction?
2. What are the methods for filling missing values in a dataset?
3. Distinguish between OLAP and OLTP.
4. What is Data generalization?
5. Draw the decision tree for the attribute 'age'.
6. Define Classification
7. What is Regression analysis?
8. What are the requirements for clustering?
9. What is meant by Authoritative web pages?
10. What is meant by Web wide tracking?

Part – B

Answer ALL Questions

(5 * 8= 40)

11. a) Write short notes on Data Integration process.
(or)
b) Explain the different schemas for Multi-Dimensional databases.
12. a) In detail, explain the If-then rule based classification.
(or)
b) Explain the various Attribute selection measures in classification.
13. a) Explain k-means partitioning algorithm in Cluster Analysis.
(or)
b) Explain any one of the Density based clustering method
14. a) Write short notes on Multimedia data mining.
(or)
b) Write short notes on Mining WWW.
15. a) Write the steps for implementing any classification algorithm using Weka Tool.
(or)
b) Explain the Applications of Data mining in Retail industry.

Part – C

Answer any TWO Questions

(2 * 20= 40)

- 16. a) Discuss Data mining as a step in the process of knowledge discovery.
b) Explain the Classification method based on Backpropagation.
- 17. a) Describe Agglomerative hierarchical clustering in detail
b) Discuss Spatial data mining in detail.
- 18. a) Explain the social impacts of data mining.
b) Consider the Salary data given below

Salary data.

<u>x years experience</u>	<u>y salary (in \$ 1000s)</u>
3	30
8	57
9	64
13	72
3	36
6	43
11	59
21	90
1	20
16	83

Predict that the salary of a college graduate with 10 years of experience using linear regression method
