LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc.DEGREE EXAMINATION –**COMPUTER SCIENCE**

FIRST SEMESTER – **APRIL 2018**

CS 1822– DATA MINING

Date: 25-04-2018   Dept. No.   Max. : 100 Marks
Time: 09:00-12:00

SECTION – A

ANSWER ALL THE QUESTIONS   **(10 X 2 = 20)**

1. Define Data mining.
2. Define Euclidian distance.
3. Define Classification.
4. What is back propagation technique?
5. What is clustering?
6. Define outlier.
7. What is association rule?
8. Write down any two applications of association rule mining.
9. What are crawlers?
10. What are HITS? Specify its components.

SECTION – B

ANSWER ALL THE QUESTIONS   **(5 X 8 = 40)**

11. a) Compare data mining with knowledge discovery in databases.
                    (OR)
    b) Explain Baye's theorem. Illustrate with an example.

12. a) Describe the issues in classification.

                    (OR)
    b) Explain CART with an example.

13. a) Explain PAM algorithm with an example.
                    (OR)
    b) Explain Divisive Analysis clustering algorithm with an example.

14. a) Explain quantitative association rules.
                    (OR)
    b) Compare all the association rule algorithms and their metrics.

15. a) Explain personalization with web content mining.
                    (OR)
    b) Explain about spatial queries.

SECTION – C

ANSWER ANY TWO QUESTIONS **(2 X 20 = 40)**

16. i) Describe the basic data mining tasks with categorization.
    ii) Explain the ID3 algorithm with example.

17. i) Explain the K - Means clustering algorithm with example.
    ii) Explain the Apriori algorithm with example.

18. i) Describe in detail about web usage mining.
    ii) Explain Neural network models and its activation functions.

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