LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.A. DEGREE EXAMINATION – **ECONOMICS**

THIRD SEMESTER – NOVEMBER 2017

16PEC3ID01 - DATA ANALYTICS FOR ECONOMISTS

Date: 11-13-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART- A   **(5 X 4 = 20 marks)**

Answer any FIVE questions in 75 words each. Each question carries FOUR marks.

1. Identify the social implications of data mining.
2. What is a scatter diagram?
3. How do you install a package in R?
4. Mention the characteristic features of a predictive model.
5. What is R Base package?
6. Mention the purposes for which decision trees can be used in analytics.
7. How is R used in logistic regression?

PART- B   **(4 X 10 = 40 marks)**

Answer any FOUR questions in 300 words each. Each question carries TEN marks.

8. Explain the testing of hypothesis with a numerical example.
9. Describe all the Rules applied in String Construction.
10. Explain the requirements of a good analytical model.
11. Examine the key steps involved in the Knowledge Discovery in Databases (KDD) process.
12. Explain how to create an R – Data Frame with syntax and examples.
13. How does a logistic regression model differ from a linear regression model?
14. Illustrate the use of decision trees with the help of a suitable example.

PART- C   **(2 X 20 = 40 marks)**

Answer any TWO questions in 1200 words each. Each question carries TWENTY marks.

15. Explain the various ways in which decision trees can be used to reduce impurity in the data set.
16. Provide a diagrammatic overview of the analytics process model.
17. With the help of a suitable example illustrate the use of the Bayes Theorem.
18. Describe the basic data mining tasks and functions. Illustrate your answer with suitable examples.

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