5	LOYOLA	COLLEGE	(AUTONOMOUS),	CHENNAI - 600 034
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M.Sc. DEGREE EXAMINATION – **STATISTICS**

THIRD SEMESTER – APRIL 2014

ST 3955/3957 - DATA WAREHOUSING AND DATA MINING

Date : 10/04/2014 Time : 01:00-04:00

SECTION-A

SECTION-B

(10x2=20 Marks)

Max.: 100 Marks

- 1. Define Knowledge Discovery in Data Mining
- 2. State the use of CART

Answer all the questions

- 3. State any two Bagging and Boosting techniques
- 4. State the uses of Gains chart
- 5. Define Sensitivity and Specificity for a binary classification problem

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- 6. State any four Non linear classifiers
- 7. Describe OLTP
- 8. State any two uses of data warehousing
- 9. Define Data Mart
- 10. Define Meta Data

Answer any FIVE questions

- 11. Describe Single tire architecture in detail
- 12. Explain the steps involved in a Data mining project
- 13. Describe ETL process in detail
- 14. State the Applications of Data mining and the steps involved in a Data mining project
- 15. Provide the steps involved in construction of a Classification tree
- 16. Explain the steps involved in constructing a random forest
- 17. Describe the steps involved in constructing a Artificial Neural Network
- 18. Explain the methods of model validation

SECTION- C

Answer any TWO questions

19. Explain Two layer and Three layer architecture in detail

20. (i) Explain the steps involved in AdaBoost M1 algorithm for Boosting model performance[10]

- (ii) Explain Kth Nearest Neighbourhood Method of classification [10]
- 21. i) Explain the algorithm involved in Support Vector Machine in detail [10]
 - ii) Describe the steps involved in Chisquare automated interaction detector [10]
- 22. i) Explain the steps involved in constructing a regression Tree [10]

ii) Provide the steps involved in Naive Bayesian classification algorithm [10]

(5x8=40 Marks)

(2x20=40 Marks)

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