

Code: CS6T3

III B.Tech - II Semester – Regular Examinations - May 2015

**DATA WAREHOUSING AND DATA MINING
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

- 1 a) Draw an architecture of a typical data mining system with a neat sketch and explain its components. 7 M
- b) Discuss the major issues in data mining. 7 M
- 2 a) Write the difference between OLTP vs OLAP. 8 M
- b) Explain ROLAP, MOLAP and HOLAP. 6 M
- 3 a) How do we measure similarity & dissimilarity of data objects. 7 M
- b) What are the different attribute types? 7 M
- 4 a) Explain Apriori Algorithm with an example? 7 M
- b) What are the disadvantages of Apriori Algorithm? 7 M

- 5 a) Explain Bayesian belief networks. 7 M
- b) Write about rule based classification. 7 M
- 6 a) What is hierarchical clustering? Explain BIRCH Algorithm. 8 M
- b) Differentiate K-means and K-Medoids algorithm. 6 M
- 7 a) Explain DBSCAN algorithm. 7 M
- b) Explain Outlier detection & analysis. 7 M
- 8 a) How text mining is related to web mining. What are the techniques for text mining? 9 M
- b) Write short notes on multimedia data mining. 5 M