

Code: CSCS2T1

I M.Tech - II Semester - Regular Examinations - AUGUST 2016

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

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

1.

a) What is data mining? Explain the various steps involved in the KDD process. 7 M

b) Explain the various data visualization techniques. 7 M

2. Explain the following data preprocessing techniques.

a) Data Integration. 7 M

b) Data Transformation. 7 M

3.

a) Explain the various schemas in multi dimensional data model. 6 M

b) Explain the data generalization by AOI approach with example. 8 M

- 4.
- a) Explain the general strategies for cube computation. 7 M
 - b) Explain the BUC algorithm for the computation of sparse (or) iceberg cubes. 7 M
- 5.
- a) Explain the FP-growth algorithm with example. 7 M
 - b) How do we mine multi level association rules? 7 M
- 6.
- a) Explain Bayesian classification method with example. 8 M
 - b) Explain about k-nearest-Neighbour classifiers. 6 M
- 7.
- a) Explain about Agglomerative and divisive hierarchical clustering methods. 7 M
 - b) Explain about DBSCAN algorithm. 7 M
8. What is outlier analysis? Explain the various outlier detection methods in detail. 14 M