PVP 12

Code: **CSCS2T1**

I M.Tech - II Semester - Regular Examinations - September 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) What is data mining? Explain the various steps involved in the KDD process 7 M

   b) Explain the various data mining functionalities. 7 M

2. a) Explain the data cleaning process in detail. 7 M

   b) Explain about dimensionality reduction in detail. 7 M

3. a) What is data warehouse? Write the differences between OLTP and OLAP 7 M

   b) Explain OLAP operations in the multi dimensional data model with examples. 7 M

4. a) State an algorithm that computes closed iceberg cubes efficiently. 7 M

b) Explain about cube materialization. 7 M

5. a) Explain the Apriori algorithm with example. 8 M

b) Explain about constraint-based association mining. 6 M

6. a) Explain the major steps of decision tree based classification with example 8 M

b) Briefly explain about Support Vector Machines. 6 M

7. a) Write the k-means partitioning algorithm and give example. 6 M

b) Explain the grid-based clustering methods. 8 M

8. a) Explain statistical distribution based outlier detection. 7 M

b) How is data mining is performed on complex datatypes? 7 M