

Code: IT5T1

III B.Tech - I Semester – Regular Examinations - November 2015

**DATA WAREHOUSING & DATA MINING
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

- 1 a) What are the steps in KDD? Explain the importance of data mining in KDD. 7 M
- b) What are the basic methods of data cleaning? 7 M
- 2 a) What are the typical OLAP operations? 7 M
- b) What are the different OLAP server architectures? 7 M
- 3 What are the techniques of Data Similarity & Dissimilarity? 14 M
- 4 a) Explain the process of frequent itemset generation using apriori. 8 M
- b) How can we improve efficiency of Apriori algorithm? 6 M

- 5 a) Explain Rule based classification mechanism. 10 M
- b) What are the metrics to evaluate classifier performance? 4 M
- 6 a) What are the requirements of clustering in data mining? 6 M
- b) Explain k-Means clustering method. 8 M
- 7 a) Explain grid based methods of clustering. 10 M
- b) What are the challenges of outlier detection? 4 M
- 8 a) How to perform similarity search in time series data? 6 M
- b) What are applications of data mining in science and engineering? 8 M