

Code No: **R41053****R10****Set No. 1****IV B.Tech I Semester Supplementary Examinations, March/April - 2016****DATA WAREHOUSING AND DATA MINING****(Computer Science Engineering)****Time: 3 hours****Max. Marks: 75**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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- 1 a) What is Data Mining? How it is different from statistical methods? [8]  
b) What are different challenges of data mining? Explore the different types of data attributes. [7]
- 2 a) What are different data pre-processing techniques? Explain. [8]  
b) What are the approaches of feature subset selection? [7]
- 3 a) Differentiate between data base and data warehouse. [8]  
b) What meant indexing OLAP data? [7]
- 4 Write the algorithm for decision tree induction. [15]
- 5 a) Describe the Bayesian classifier. [8]  
b) What is Naïve Bayes classification? [7]
- 6 a) What is association rule mining? How to calculate support and confidence? [8]  
b) What is frequent Item set? Explain the Frequent-growth algorithm. [7]
- 7 a) What are advantage and applications of clustering methods? [8]  
b) Explain K-means and different types of clusters. [7]
- 8 a) Explain the hierarchical clustering algorithm. [8]  
b) What is DBSCAN? Explain its application. [7]