

Code No: I0505/R16

M. Tech. I Semester Regular Examinations, January-2017

DATA WAREHOUSING AND DATA MINING

[Computer Science (05)]

Time: 3 Hours

Max. Marks: 60

Answer any FIVE Questions
All Questions Carry Equal Marks

1. a What is data warehouse? How it is different from DBMS and meta data? 6
b Write short notes on Data extraction, Transformation tools and clean up operations. 6
2. a What is OLAP? Explain the need for multidimensional data model. 6
b Discuss the OLAP Tools and Internet. How to transform data ware house to data mining using OLAP? Explain. 6
3. a What is data mining? Explain its functionalities to mine various kinds of patterns. 6
b How to integrate data mining system with a database or data warehouse system? Explain. 6
4. a Why the data has to be preprocessed? Explain the role of descriptive data summarization techniques in it. 6
b Discuss the major issues in data mining. 6
5. a Explain the process of mining multilevel association rules. 6
b Write short notes on 6
 - i) Frequent item sets.
 - ii) Closed Item sets.
6. a What is Bayes theorem? Explain Naïve Bayes classification with suitable example. 6
b Differentiate between prediction and classification. And also explain various regression based methods. 6
7. a What is cluster analysis? Explain the typical requirements of cluster Analysis. 6
b Explain the following Grid based clustering methods: 6
 - i) STING
 - ii) Wave Cluster.
8. a Differentiate between agglomerative and hierarchical clustering. 6
b How to cluster the high dimensional data? Explain various algorithms in it. 6
