

M.Tech. Computer Science & Engineering (CBCS Pattern) Semester - I
PCSS141 / PCSS14(A) - Data Warehousing and Data Mining

P. Pages : 1

Time : Three Hours



GUG/S/23/10944

Max. Marks : 70

- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Solve **any five** questions.

1. a) Explain data mining as a step-by-step process of knowledge discovery. Mention the functionalities of Data mining. 7
b) What is data visualization and data transformation? Explain with examples. 7
2. a) What are OLAP operations in the multidimensional data model? Explain. 7
b) Explain about evaluating the performance of a classifier. 7
3. a) Discuss in detail about agglomerative hierarchical clustering. 7
b) Explain about neural network and mining. 7
4. a) What are summary statistics? Explain. 7
b) Explain about text mining. 7
5. a) What is data preprocessing? Explain in detail. 7
b) How to build a decision tree? Explain. 7
6. a) Explain in detail customer relationship management in e-business world. 7
b) What is cluster analysis? Explain different types of clustering. 7
7. a) Explain frequent item set generation in the Apriori algorithm. 7
b) What are the methods for expressing attribute test conditions? Explain. 7
8. a) Describe the basics of K-means algorithm and explain. 7
b) Explain the web data mining architecture. 7
