

--	--	--	--	--	--	--	--	--	--

29

Fifth Semester MCA Degree Examination, June-July 2009
Data Mining and Warehousing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Define Data Warehouse. Explain its features. (04 Marks)
b. Explain OLAP operations in the Multidimensional Data model with neat diagram. (08 Marks)
c. How to index OLAP data bitmap indexing and join indexing. Explain with example. (08 Marks)
- 2 a. With neat block diagram explain an integrated OLAM and OLAP architecture. (08 Marks)
b. What is data cleaning? Explain data cleaning method for filling missing values. (08 Marks)
c. Write and explain any four data reduction strategies. (04 Marks)
- 3 a. Give DMQL syntax for specifying the kind of knowledge to be mined. (10 Marks)
b. Explain primitives for specifying a data mining task. (10 Marks)
- 4 a. Write Apriori algorithm for discovering frequent item sets for mining boolean association rules. (10 Marks)
b. Discuss the different approaches to mining multilevel association rules. (10 Marks)
- 5 a. What are Bayesian classifiers? Explain working of simple Bayesian classifier. (12 Marks)
b. Explain Back propagation algorithm. (08 Marks)
- 6 a. Explain typical requirements of clustering in data mining. (10 Marks)
b. Write and explain categories of major clustering methods. (10 Marks)
- 7 a. Discuss Density-Based Spatial Clustering of Applications with Noise (DBSCAN). (10 Marks)
b. What is a distance-based outlier? Write a note on efficient algorithms used for mining distance-based outliers. (10 Marks)
- 8 a. What are the different criteria used in selection of a data mining system? Explain. (10 Marks)
b. Describe the trends in data mining. (10 Marks)