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MCA552

Fifth Semester MCA Degree Examination, December 2011
Data Mining and Warehousing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Define the term data warehousing. Explain the data lube technology, with examples. (10 Marks)
b. Explain the three – tier data warehousing architecture. (10 Marks)
- 2 a. Explain the OLAP operation in the multidimensional data model. (10 Marks)
b. What is NOISE data? Explain the different techniques of noise data, with examples. (10 Marks)
- 3 a. Explain the various data mining tasks in detail, with examples. (12 Marks)
b. Explain the architectures of data mining systems. (08 Marks)
- 4 a. Define the market basket analysis. (03 Marks)
b. Explain the APRIORI algorithm to find frequent item sets. (10 Marks)
c. Explain the different approaches used in multilevel association rules mining. (07 Marks)
- 5 a. Explain the decision tree induction method, with examples. (10 Marks)
b. Explain the back propagation algorithm. (06 Marks)
c. Define the prediction and linear regression. (04 Marks)
- 6 a. Explain the k – means and k – medaids classification partitioning methods. (10 Marks)
b. Explain the agglomerative nesting and divisive analysis hierarchical clustering methods. (10 Marks)
- 7 a. Explain the application of data mining for the telecommunication industry. (10 Marks)
b. Explain the social impacts of data mining, with examples. (10 Marks)
- 8 Write short notes on:
a. OPTICS
b. CLIQUE
c. COBWEB
d. k – NN classifiers (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.