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NEW SCHEME

Second Semester M.Tech. Degree Examination, June 2007

Data Warehousing and Mining

Time: 3 hrs.]

[Max. Marks:100

Note : Answer any FIVE full questions.

- 1 a. Give the formal definition of a data warehouse and explain its characteristics. (10 Marks)
 b. Compare operational data store with informational data. (05 Marks)
 c. Discuss the need for data mining in organization. (05 Marks)
- 2 a. How does dependant data mart differ from independent data mart? Explain where they are implemented. (08 Marks)
 b. Write a note on information delivery system. (05 Marks)
 c. What are the guidelines and requirements for selecting OLAP systems? (07 Marks)
- 3 a. Explain MOLAP architecture with a neat diagram. (07 Marks)
 b. State Baye's theorem. Give an instance of its application. (05 Marks)
 c. What is meant by categorical predictors? Explain its classification. (08 Marks)
- 4 a. Differentiate between causality and collinearity with examples. (08 Marks)
 b. Describe hypothesis testing taking any real-time application in detail. (12 Marks)
- 5 a. Explain contingency table used in statistics with an example. (06 Marks)
 b. What do you mean by regression? Explain its purpose in business analysis. (08 Marks)
 c. Discuss the terms used for measuring data mining effectiveness. (06 Marks)
- 6 a. What do you mean by application score card and business score card? Explain the same with respect to decision trees. (10 Marks)
 b. Explain how ID3 algorithm used for handling high-cardenality predictors. (10 Marks)
- 7 a. Compare clustering with nearest-neighbor and also explain their usage. (09 Marks)
 b. How do you classify clustering? Explain them in detail. (11 Marks)
- 8 a. Explain the different ways in which mutation can occur. (12 Marks)
 b. Give the applications of generic algorithms in data mining. (08 Marks)