Second Semester M.Tech Degree Examination, June - July 2009

Data Warehousing and Mining

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions.

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1	a. b.	Differentiate between operational data and informational data. Describe two tier data warehouse architecture and three tier data warehouse architecture.	(06 Marks) ecture. (08 Marks)
	c.	Elaborate on the issues to be dealt with by data sourcing, cleanup, extract, transand migration tools.	` '
2	a. b.	What are the guidelines and requirements for selecting OLAP systems? Explain ROLAP architecture by means of a diagram. How they differ from architecture? Discuss any two approaches for deploying DSS tools.	(07 Marks) n MOLAP (10 Marks) (03 Marks)
3	a. b.	State Bayes Theorem. Give an instance of its application. The probability that measles causes spots is 0.5 and the probability that a person has spots is 0.2. What is the probability the who has spots is having measles? Describe Hypothesis testing and discuss any real world application in detail.	
4	a. b. c. d.	Describe query and reporting tools in data warehousing environment. What is CHAID? Give an example. What does metadata contain and what are the benefits of metadata repository? Describe the building of predictive models.	(05 Marks) (05 Marks) (05 Marks) (05 Marks)
5	a. b.	Describe the aspects of business score card. Explain application score card with decision trees. Explain prediction of wireless churns with CART.	respect to (10 Marks) (10 Marks)
6	a. b.	How clustering and nearest neighbor are used? Give examples. Describe image recognition for human handwriting and bring about strewards weaknesses.	(10 Marks) engths and (10 Marks)
7	a. b.	Discuss in detail the working of genetic algorithm. Describe the case of optimizing predictive customer segment using genetic algori	(10 Marks) thms. (10 Marks)
8	a. b.	What are genetic algorithms and how they relate to evolution? Explain the different ways in which mutation can occur.	(10 Marks) (10 Marks)

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