(05 Marks)

(10 Marks)

USN

Fifth Semester MCA Degree Examination, June 2012 Data Mining

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions.

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1	b.	What is data mining? Explain the knowledge discovery process in data mining. Explain the general characteristics of data sets. Explain the measurement and data collection issues related to data quality.	(05 Marks) (05 Marks) (10 Marks)
2		Explain any four types of data attributes, with suitable examples. What is data preprocessing? What are the steps involved in it? Explain any tydetail?	(10 Marks) wo steps in (10 Marks)
3	b.	Explain the various measures for selecting the best split. Explain the sequential covering algorithm for rule extraction. Discuss general – to – specific and specific – to – general rule growing strat suitable examples.	(05 Marks) (05 Marks) egies. Give (10 Marks)
4		Write and explain the apriori algorithm for finding frequent item sets. Explain the alternative methods for generating frequent item sets (Traversal methods)	(10 Marks) aod). (10 Marks)
5	a.	What are the factors affecting the computational complexity of apriori algorithm? Explain them.	
	b.	Explain FP – growth algorithm to find frequent itemset.	(10 Marks) (10 Marks)
6	b.	Explain k – nearest neighbour classifier. Explain the different types of clusters. Explain different types of clustering.	(05 Marks) (05 Marks) (10 Marks)
7	b.	Give an overview of cluster evaluation. Write a note on spatial data mining. Explain the different approaches used in text mining.	(05 Marks) (05 Marks) (10 Marks)
8		rite short notes on : Applications of data mining to financial data analysis.	(05 Marks)

b. Features used to assess data mining system.

c. Explain the role of data mining in science and engineering.