(10 Marks)

(10 Marks)

Fifth Semester MCA Degree Examination, June/July 2011 Data Mining

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1	a. b. c.	Describe the different types of attributes, with example.	(10 Marks) (08 Marks)	
	C.	write the characteristics of data sets.	(02 Marks)	
2	a.	What is data preprocessing? What are the steps involved in data preprocessing? two with example.	-	
	b.	Describe variable transformation as a step for data preprocessing.	(08 Marks) (07 Marks)	
		Discuss the dissimilarities between data objects.	(07 Marks) (05 Marks)	
3	a.	Define classification. Explain how classification is done by decision tree induction.		
			(10 Marks)	
	b.	Explain Hunt's algorithm, with an example.	(05 Marks)	
	c.	Write a note on web robot detection.	(05 Marks)	
4	a.	How rule based classifier works? Explain rule-ordering schemes.	(06 Marks)	
	b.	Discuss formulation of association rule for mining purpose.	(08 Marks)	
	C.	Write nearest neighbour classification algorithm.	(06 Marks)	
5	a.	Describe the evaluation of association patterns.	(10 Marks)	
	b.	Explain FP-growth algorithm to find frequent item sets.	(10 Marks)	
6	a.	What is cluster analysis? Distinguish the various types of clustering.	(08 Marks)	
	b.	Explain the basic k-means algorithm.	(07 Marks)	
	c.	Discuss DBSCAN algorithm which illustrates the concepts for density based clusters and the concepts for density based clusters.	stering. (05 Marks)	
			(no marks)	
7	a. b.	What is an outlier? Explain briefly the types of outlier detection. Write short notes on:	(10 Marks)	
		i) Spatial data mining.		
		ii) Multimedia data mining.	(10 Marks)	

What are the parameters to be considered while choosing data mining system? Explain.

Explain any two data mining applications.