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

	Data mining and Waterloading	
Time: 3 hrs.		Max. Marks:100
	Notes Assurer and EUE Gall acceptions	

Tin	ne: 3	hrs.	Max. Ma	arks:100			
	Note: Answer any FIVE full questions.						
1	a.	What is datamining? Explain the process of knowledge discovery	y in databases	(KDD) in			
		detail. Evaluin data mining functionalities in brief		(10 Marks)			

Explain data mining functionalities in brief.

a. Briefly explain about various data models for data warehouse.

2 Briefly explain 3 – tier architecture of data warehouse.

3 Why to preprocess data? Explain various techniques of data preprocessing. b. Explain data mining primitives in brief.

c. What is back ground knowledge? How concept hierarchies allow discovering knowledge at multiple levels of abstraction?

Demonstrate apriori algorithm for finding frequent itemsets using candidate generation. b. Explain various methods for improving efficiency of Apriori algorithm. 5

b. What is decision tree? Explain classification by decision tree induction. a. What are Bayesian classifiers? Explain Bayes theorem. b. Explain Naïve Bayesian classification.

c. What is back propagation? How does it work?

a. What is cluster analysis? Explain centroid - based technique (K - means method) for 7 clustering n objects given in a database. b. Explain about COBWEB in brief. c. Explain data mining applications in brief. 8

d. CURE algorithm.

c. DMQL.

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Explain the following: b. Concept Hierarchy.

a. Architecture of typical data mining system.

(10 Marks) (10 Marks) (10 Marks)

> (08 Marks) (06 Marks) (06 Marks)

(12 Marks) (08 Marks) What is classification and prediction? Explain issues regarding classification and prediction. (10 Marks)

> (10 Marks) (08 Marks) (06 Marks) (06 Marks)

(08 Marks) (06 Marks) (06 Marks)

(05 Marks) (05 Marks) (05 Marks) (05 Marks)