USN

Fifth Semester MCA Degree Examination, December 2012 Data Warehousing and Data Mining

		Data Warehousing and Data Mining	
Time: 3 hrs. Max. M			arks:100
Note: Answer any FIVE full questions.			
1		What is Data mining? Explain the challenges that motivated the developme mining. Discuss the different types of data sets in data mining.	ent of data (10 Marks) (10 Marks)
2	b.	What is data preprocessing? What are the steps involved in it? Explain any two detail. What is Euclidian distance? Write the generalized Minkowski distance metric for values of r. Consider the following two binary vectors $X = (1,0,0,0,0,0,0,0,0,0)$ $Y = (0,0,0,0,0,1,0,0,1)$. Find i) Simple matching	(08 Marks) or different (08 Marks)
		(SMC) ii) Jauard coefficient.	(04 Marks)
3	b.	Define the following with an example to each: i) Association rule ii) Support of a rule iii) Confidence of a rule. State and illustrate using lattices the apriori principle, with an example. Describe briefly the criteria for evaluating the quality of association pattern.	(06 Marks) (08 Marks) (06 Marks)
4	a. b.	Explain hunt's algorithm for the inducing decision trees. Describe the different methods used for estimating predictive accuracy of classification.	(10 Marks) cation. (10 Marks)
5	a.	What is cluster analysis? Explain with example. Explain the types of clust methods.	er analysis (12 Marks)
	b.	Write a note on quality and validity of cluster analysis methods.	(08 Marks)
6		Define web mining. Explain the following with an example. i) Web content mining ii) Web structure mining iii) Web usage mining.	(14 Marks)
	b.	Write a note on mining spatial and temporal databases.	(06 Marks)
7	,	Define operational data store (ODS). Explain operational data store structure, wit	(10 Marks)
	U.	Compare ODS and data ware house.	(05 Marks)

- c. Briefly explain the implementation steps while building a data warehouse. (05 Marks)
- 8 a. Define OLAP. Explain FASMI characteristic of OLAP systems. (10 Marks)
 - b. Explain the guidelines for successful implementation of OLAP. List out any six OLAP software available in the market. (10 Marks)