CRASH COURSE

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Seventh Semester B.E. Degree Examination, May 2017 **Data Warehousing and Data Mining**

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.											
$\underline{PART - A}$											
1	a. b. c.	Explain the issues resolved by ETL system.	(08 Marks) (06 Marks) (06 Marks)								
2	b.	Explain the data cube implementation. List and explain the different data cube operations. Explain the FASMI characteristics of OLAP.	(08 Marks) (08 Marks) (04 Marks)								
3	b.	What is Data Mining? Explain the core data mining tasks with example. What is Data preprocessing? List and explain the different preprocessing techniques the SMC and Jaccard similarity coefficients for the binary vector given	(08 Marks)								
4		X = (1, 0, 0, 0, 0, 0, 0, 0, 0, 0); $Y = (0, 0, 0, 0, 0, 0, 1, 0, 0, 1)$. Develop the Apriori algorithm for generating frequent item set. With transactional data set, explain different types of compact representation item set.	(04 Marks) (08 Marks) of frequent (12 Marks)								
		$\underline{PART} - \underline{B}$									
5	a. b.	What is Classification? Explain the general approach for building classificate. What is Rule based Classifier? Explain how rule based classifier works.	tion model. (10 Marks) (10 Marks)								
6		Explain Bayesian classification. Explain how the predictive accuracy of classification methods be estimated.	(10 Marks) (10 Marks)								
7		What is Cluster Analysis? Explain the desired features of cluster analysis. Find the distance between following cluster using different distance metrices: Cluster $1: \{(1, 5)(2, 4)(3, 3)(2, 1)\}$; Cluster $2: \{(5, 4)(6, 6)(7, 5)(8, 8)\}$.	(08 Marks) (08 Marks)								
	c.	What are the advantages of Hierarchical approach?	(04 Marks)								
8	a. b.	ite short notes on : Text clustering. Mining spatial and temporal databases. Unstructured text.									

- d. Comparison of OLTP and data warehouse.

(20 Marks)