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Seventh Semester B.E. Degree Examination, Dec.2016/Jan.2017 Data Warehousing and Data Mining

		Data Warehousing and Data Mining										
Tin	Time: 3 hrs. Max. Marks:100											
No	Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.											
1	b.	PART – A Give the definition of Data warehousing. With a schematic diagram, explain the general Data warehousing architecture. List the major steps involved in ETL process. What is Meta data? Discuss different types of meta data used in Data warehouse.	(08 Marks) (08 Marks)									
2	a.	Explain Codd's OLAP characteristics. Describe data cube operations, with an example.	(10 Marks) (10 Marks)									
3	b.	Discuss the challenges that motivate the development of Data mining. Consider the following vectors. Find i) Simple matching co-efficient ii) coefficient iii) Hamming distance. $X = 0101010001$ $Y = 0100011000$.	(06 Marks) Jaccard (04 Marks)									
4	a.	Describe any five data preprocessing approaches. What is Association Analysis? Define Support and confidence, with an example. Develop the Apriori algorithm for frequent itemset generation, with an example. Explain the various measures of evaluating association patterns.	(10 Marks) (04 Marks) (08 Marks) (08 Marks)									
5	a. b. c.	1 1100	each of the									
6		Explain Bayesian classification. Explain how the predictive accuracy of classification methods be estimated.	(10 Marks) (10 Marks)									
7	a. b. c.		(10 Marks) (05 Marks) (05 Marks)									
8	a.	Explain web content mining and how it is used for discovering useful information web.	on from the (10 Marks)									

ii) Text mining.

(10 Marks)

b. Write short notes on: i) Spatial data mining