Code No: 117CD JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2017 DATA WAREHOUSING AND DATA MINING (Computer Science and Engineering)

Time: 3 Hours

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

l.a)	Define data warehouse.	[2]
b)	List the Data warehouse Characteristics.	[3]
c)	How can you go about filling in the missing values for this attribute?	[2]
d)	Why is the word data mining a misnomer?	[3]
e)	Give a note on Closed Frequent Item Set.	[2]
f)	Write the FP-graph algorithm.	[3]
g)	How prediction is different from classification?	[2]
h)	What is rule classification?	[3]
i)	Give a note on k means algorithm.	[2]
j)	List the Key Issues in Hierarchical Clustering.	[3]

PART - B

		(50 Marks)
2.a)	Make a comparisons between the MOLAP and HOLAP.	
b)	Discuss the star and snowflake schema in detail with suitable example.	[5+5]
	OR	
3.a)	Write the difference between designing a data warehouse and an OLAP cube	
b)	Give a brief note on ROLAP.	[5+5]
4.	Explain concept hierarchy generation for the nominal data.	[10]
	OR	
5.a)	Describe the Feature Subset Selection.	
b)	Illustrate the Data Transformation by Normalization.	[5+5]

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Max. Marks: 75

Make a comparison of Apriori and ECLAT algorithms for frequent item set mining in transactional databases. Apply these algorithms to the following data: 6.

	TID	LIST OF ITEMS	
	1	Bread, Milk, Sugar, TeaPowder, Cheese, Tomato	
	2	Onion, Tomato, Chillies, Sugar, Milk	
	3	Milk, Cake, Biscuits, Cheese, Onion	
	4	Chillies, Potato, Milk, Cake, Sugar, Bread	
	5	Bread, Jam, Mik, Butter, Chilles	
	6	Butter, Cheese, Paneer, Curd, Milk, Biscuits	
	7	Onion, Paneer, Chilies, Garlic, Milk	
	8	Bread, Jam, Cake, Biscuits, Tomato	[10]
		OR	
7.	Briefly explain the	he Partition Algorithms.	[10]
8.	Discuss K- Nearest neighbor classification-Algorithm and Characteristics. OR		
9.	How does the Na	aïve Bayesian classification works? Explain in detail.	[10]
10.a) b)	Give a brief note What is the dra diminish that pro	e on PAM Algorithm. wback of k-means algorithm? How can we modify the a bblem?	llgorithm to [5+5]

OR

What are the different clustering methods? Explain in detail. 11. [10]

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