R13 Code No: 117CD JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, April/May - 2018 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)
1.a)	List out the operations of OLAP.	[2]
b)	What is fact table? Write its uses.	[3]
c)	Define discretization.	[2]
d)	What is predictive mining? Explain it briefly.	[3]
e)	Write the purpose of Apriori algorithm.	[2]
f)	Define support and confidence measure.	[3]
g)	What is boosting?	[2]
h)	Define decision tree.	[3]
i)	Write the strengths of hierarchical clustering.	[2]
j)	Compare agglomerative and divisive methods.	[3]
	PART-B	
		(50 Marks)
2.a)	With a neat sketch, Explain three tier architecture of data ware housing.	
h)	Explain various data warehouse models	[5+5]

b)	Explain various data warehouse models.	[5+5]
	OR	
3.	Write a note on	
	a) Relational OLAP	
	b) Multi dimensional OLAP.	[5+5]
4.a)	Discuss in detail about the steps of knowledge discovery?	
b)	Write a note on subset selection in attributes for data reduction.	[5+5]
	OR	
5.a)	Explain various data mining tasks.	
b)	Discuss briefly about data cleaning techniques.	[5+5]
6.a)	Write FP- growth algorithm.	
b)	Explain how association rules are generated from frequent item sets.	[5+5]
ŕ	OR	
7.a)	Explain the procedure to mining closed frequent data item sets.	
b)	Explain, how can you improve the performance of Apriori algorithm.	[5+5]

Max. Marks: 75

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8.a)	What is Bayesian belief network? Explain in detail.	
b)	Write a note attribute selection measures.	[5+5]
	OR	
9.a)	Write k-nearest neighbor classification algorithm and its characteristics.	
b)	Write decision tree induction algorithm.	[5+5]
10.a)	What is outlier detection? Explain distance based outlier detection.	
b)	Write partitioning around mediods algorithm.	[5+5]
	OR	
11.a)	Write K-means clustering algorithm.	
b)	Write the key issue in hierarchical clustering algorithm.	[5+5]

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