**SET - 1** 

## III B. Tech II Semester Supplementary Examinations, November - 2019 DATA WAREHOUSING AND MINING

(Computer Science and Engineering)

Ti	ime: í	3 hours Max. Marks	s: 70	
		Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A 3. Answer any FOUR Questions from Part-B		
	<u>PART -A</u> (14 Marks)			
1.	a)	How to use Euclidian distance measure for similarity and dissimilarity? Give example.	[2M]	
	b)	Write a short note on discretization.	[2M]	
	c)	Write about induction and deduction tasks in classification.	[2M]	
	d)	Explain Bayes theorem.	[3M]	
	e)	Write a short note on market basket analysis.	[3M]	
	f)	Describe various types of clusters.	[2M]	
<u>PART –B</u> (56 Marks)				
2.	a)	What is data set? Describe different characteristics and types of data sets used in data mining.	[7M]	
	b)	How to summarize the properties of data using statistical measures? Give example for each measure.	[7M]	
3.	a)	Describe the problem of data quality with some examples. Explain the usage of feature subset selection in data preprocessing.	[7M]	
	b)	What is data consolidation? In detail discuss various techniques used to consolidate data.	[7M]	
4.	a)	Write and explain decision tree classifier with induction algorithm with an example.	[7M]	
	b)	In continuation to Q. 4(a) explain various measures used to find the best split node in decision tree.	[7M]	
5.		What is Naïve Bayes classifier? How to estimate the probabilities from data? Give example for classification.	[14M]	
6.		Assume 5 transactions and explain the two step approach to generate frequent item sets and to mine association rules using Apriori algorithm.	[14M]	
7.	a)	Explain density based algorithm for clustering data. Discuss its merits and demerits.	[7M]	
	b)	Discuss the working procedure of bisecting K-means algorithm. How it improves the performance of K-means? Explain.	[7M]	

\*\*\*\*

||"|"||"||"||