USN	1							901574	
Seventh Semester B.E. Degree Examination, Dec.2017/Jan 2018									
Data Warehousing and Data Mining									
Time: 3 hrs. Marks:100									
Note: Answer any FIVE full questions, selecting									
at least TWO questions from each part									
		Val	7		PART – A		W.		
1	a.	Give the definition	n of data				or data warehousing.	(06 Marks)	
•	b.	Give the definition of data warehousing. Discuss the need for data warehousing. Give the difference between OLTP and data warehouse systems. (06 Marketon of the difference between OLTP and data warehouse systems.)							
	c.	Discuss the characteristics of operational data store with its design and implementation							
		issues.	1	D		(1)	Vy	(10 Marks)	
2	0	Describe the oper	ations of	Aata dube		and	V	(10 Marks)	
2	a. Describe the operations of data cube.b. Present five major characteristics from Codd's rule							(05 Marks)	
	c.	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
3								(10 Marks) (10 Marks)	
	b.	Explain: (i) Data mining applications, (ii) Issues in proximity calculation. (10 Marks)							
4	a.	What is Frequent Itemset Generation? Explain Frequent Itemset Generation using Apriori							
		principle. (10 Marks)							
	b.	Given the following set of transactions in market basket model. Build a frequency pattern							
		(FP tree) show each transaction separately.							
		Transaction ID (tems bought) 01 Milk, bread, cookies, juice)							
		01 Milk, bread, cookies, juice 02 Milk, juice							
		03 Milk, eggs							
		04 Rread, cookies							
		Juice, eggs							
	06 Bread, eggs								
(10 Marks)									
PART - B									
5	5 a. Explain Hunts algorithm. Using Hunts algorithm write decision tree for the following da Tid Home Annual Marital Default								
		Tid	Home	Income	Status	borrower	(0)		
			Yeas	125 K	Single	No	69		
		n > 2	No	100 K	Married	No	00	3	
		W/N 2	NIO	70 V	Single	No	(6)	//	

No 70 K Single Married No 4 Yes 120 K Yes 5 No 95 K Divorced Married No 6 No 60 K 7 Divorced No Yes 220 K Yes 8 No 85 K Single Married No 75 K 9 No 10 No 90 K Single Yes

(10 Marks)

b. Explain the various measures for selecting the best splits.

e. Explain the rule evaluation criteria for classification.

(05 Marks) (05 Marks)

1 of 2

301S74 What are Bayesian classifiers? Explain Baye's theorem for classification. (10 Marks) Explain how the predictive accuracy of classification methods be estimated. (10 Marks) Give the definition of cluster analysis. Explain desired features of cluster analysis. (10 Marks) Explain the following clustering technique with algorithm. i) K-means method (10 Marks) ii) Divisive hierarchical method. What is Web data mining? Explain Web document clustering (06 Marks) Explain different text mining approach. (08 Marks) (06 Marks) Describe sequential mining technique, with an example