

(b) Explain Roll-up and Slice operations with an example for each. (4 Marks)(c) Explain loosely coupled and tightly coupled DBMS to a Data Mining application.

(2 Marks)

2. (a) For the transactions given below, if the frequent itemset is {TV, Fridge, Camera} and {TV, Fridge, WM}, find all the association rules, given minimum confidence = 70%.

TID	List of Items
T1	TV, Fridge, WM
T2	Fridge, DVD Player
T3	Fridge, Camera
T4	TV, Fridge, DVD Player
T5	TV, Camera
T6	Fridge, Camera
T7	TV, Camera
T8	TV, Fridge, Camera, WM
T9	TV, Fridge, Camera

	(5 Marks)	
(b) Explain Border algorithm for Association Rule mining.		
3. (a) Write the FP-Tree algorithm for Association Rule mining.	(5 Marks)	
(b) Explain Naïve Bayesian Classification method.	(5 Marks)	
4. (a) Write the basic algorithm for decision tree construction.	(4 Marks)	
(b) Explain any one Attribute selection measure for Decision Tree construct	ion.	
	(2 Marks)	
(c) Write a note on Rough Sets and Genetic Algorithms.	(4 Marks)	
5. (a) State the ways in which distance can be calculated between two Interval Scaled		
variables.	(4 Marks)	
(b) Write a note on Nominal and Ordinal variables.		
(c) For a Data Mining application, a Partitioning Algorithm needs to be used. 1	lt is found	
hat the test data is free of outliers. Choose a Partitioning Algorithm and explain it.		
	(4 Marks)	
6.(a) Define the terms Precision and Recall with respect to Text/Web Mining.	(4 Marks)	
(b) Explain the mechanism used for Page Ranking.		
(c) Explain Web Usage mining.	(4 Marks)	
