

## Online Assignment 2

### CAP446: Data Warehousing and Data Mining

**Max Marks: 30**

*Instructions:*

1. Attempt all the questions
2. Solutions must be handwritten and individual.
3. Copied cases/ Wrong uploads will be marked zero.
4. Upload assignments on UMS navigation → Learning management system → Assignment upload → choose CAP446 from dropdown

1. Prepare a FP growth tree for the following transactions. Given Minimum support=2

[15]

Transaction ID	List of items in the transaction
T1	B , A , T
T2	A , C
T3	A , S
T4	B , A , C
T5	B , S
T6	A , S
T7	B , S
T8	B , A , S , T
T9	B , A , S

2. For the following given transaction dataset, generate rules using Apriori algorithm. Consider values as SUPPORT=30% and CONFIDENCE=60%

[15]

TID	PRODUCTS			
1	Milk	Egg	Bread	Butter
2	Milk	Butter	Egg	Ketchup
3	Bread	Butter	Ketchup	
4	Milk	Bread	Butter	
5	Bread	Butter	Cookies	
6	Milk	Bread	Butter	Cookies
7	Milk	Cookies		
8	Milk	Bread	Butter	
9	Bread	Butter	Egg	Cookies
10	Milk	Butter	Bread	
11	Milk	Bread	Butter	
12	Milk	Bread	Cookies	Ketchup

