## Distributed Information Systems: Spring Semester 2015 Quiz 6: Association Rules + Clustering & Classification

			1 May 2015 1:15AM to 11:30AM
Total number of questions: 8  Each question has a single answer!			
Consider the followi	ng $D(Transaction ID, Item$	List) database.	
	TID T100 T200 T300 T400 T500 T600 T700 T800 T900	I2,I4 I2,I3 I1, I2, I4 I1, I3, I5 I2, I3 I1, I3 I1, I2, I3	
Let $L_k$ be the set of fre	quent $k$ -itemsets and the $n$	ninimum support count for t	the apriori algorithm be 3.
1. Which of the follo	wing itemsets has a support	count 3?	
$\Box a) \{I1,I2\}$	$\Box$ b) {I1,I3}	$\boxtimes c) $ {I1,I5}	$\Box d$ ) {I2,I3}
2. What is the size of	of set $L_2$ ?		
$\Box a) \ 3$	$\Box \ b) \ \ 4$	$\boxtimes c)$ 5	$\Box d)$ 6
3. Which statement	about Association Rules Mi	ning is <b>correct</b> ?	
frequent k-ite	emset as a result.	, ·	by one item, we will always get
,	ep of the apriori algorithm in frequent itemset is always	-	cess.
,	-	_	r generation of frequent item sets
, -	about Association Rules Mi		1
	ation of frequent itemsets ne		nfidence level defined.
, -	cretization allows transform		to categorical ones, based on the
$\Box$ c) Confidence n	netrics determines for a freq	uent itemset whether a rule	e is implied.
$\Box d$ ) A very low so in the same t		le indicates that the body a	and the head rarely occur togethe