Name:					
NetID:		_ Lect	ure:	${f A}$	
Discussion:	Monday & Wednes	sday 1:30	2:30		
system, each resist is determined by t the same, regardles	nald Knuth has proposed a tor has 10 stripes. Each striche total amount of each co ss of the order in which tho t? Briefly justify your answ	ripe can be eith blor. E.g. two r se stripes appea	er red, b esistors v ar. How i	due, or green. with 4 red, 5 b	The type of resistor olue, and 1 green are
(6 points) Starare on individual p	te the negation of the followed cates.	wing claim, mo	ving all r	negations (e.g.	"not") so that they
There is a re	lish r such that r is orange	but r is not sp	icy.		
(2 points) Chec	ck the (single) box that bes	et characterizes	each iten	Ω.	
from among 5	ys can I choose 10 bagels varieties, if I can have any els from any type?	5 10! 5!5!	$\frac{14!}{10!4!}$	$\frac{14!}{9!5!}$	

Name:_ NetID: Lecture: \mathbf{A} Monday & Wednesday Discussion: 2:30 1:30 Graph G is at right, with set of (d)nodes V and set of edges E. Let $f: V \to \mathbb{P}(V)$ such that $f(n) = \{v \in V \mid \text{ there is an edge between } n \text{ and } v\}.$ Let $T = \{ f(n) \mid n \in V \}$. (3 points) f(b) =(3 points) Is T a partition of V? Check the partition properties that are satisfied. No Empty set No Partial Overlap Covers base set (7 points) Suppose that A and B are sets, C_A is a partition of A and C_B is a partition of B. Is $C_A \cup C_B$ a partition of $A \cup B$? Briefly justify your answer. (2 points) Check the (single) box that best characterizes each item. A partition of a set A contains Aalways sometimes never