Math 22 (9:30am – 10:20am) Pop Quiz 1 Version G Wed Sep 28, 2011					N	NAME YOU ASKED TO BE CALLED IN CLASS:		
SCORE:/ 6 POINTS								
Consider the statement SCORE:/ 3 POINTS								
	"Some positive integer is less than or equal to every positive integer."							
[a]	Is the statement universal existential (UE) or existential universal (EU) ? Existential Universal							
[b]	Rewrite the statement using the formal structure shown in class. (If you wish, you may use algebra and/or proper set notation from section 1.2 of your textbook.)							
	OD	There is a positive integer x, such that for all positive integers y, $x \le y$						
	UK	There exists $x \in Z^+$, such that for all $y \in Z^+$, $x \leq y$						
[MULTIPLE CHOICE] <u>Circle the letter of the correct answer.</u> SCORE:/ 3 POINTS								
	Which of the following statements are true ?							
		[I] [II] [III]	$2 \subseteq \{1,2,3\}$ $\{2\} \in \{\{1\},\{2\}$ $\{2\} \in \{1,2,3\}$	}	FALSE TRUE FALSE			
	(a)	[I]		(b)		(c)	[III]	
	(d)	[I] and	[II]	(e)	[II] and [III]	(f)	all are true	
Math 22 (9:30am - 10:20am)NAME YOU ASKED TO BE CALLED IN CLASS:Pop Quiz 1 Version OWed Sep 28, 2011								
SCORE:/ 6 POINTS								
Consider the statement SCORE:/ 3 POINTS								
	"All real numbers have additive inverses."							
[a]	Is the statement universal existential (UE) or existential universal (EU) ? Universal Existential							
[b]	Rewrite the statement using the formal structure shown in class. (If you wish, you may use algebra and/or proper set notation from section 1.2 of your textbook.)							
	OR	For all real numbers x, there is a real number y, such that y is the additive inverse of x						
		For all $x \in Z^+$, there exists $y \in Z^+$ such that $x + y = 0$						
[MULTIPLE CHOICE] <u>Circle the letter of the correct answer.</u> SCORE:/ 3 POINTS								
Which of the following statements are true ?								
		[I] [II] [III]	$2 \subseteq \{1,2,3\}$ $\{2\} \subseteq \{\{1\},\{2\}\}$ $\{2\} \in \{1,2,3\}$	}}	FALSE FALSE FALSE			
	(a)	[I]		(b)	[II]	(c)	[III]	
	(d)	[I] and	[II]	(e)	[II] and [III]	(f)	none are true	