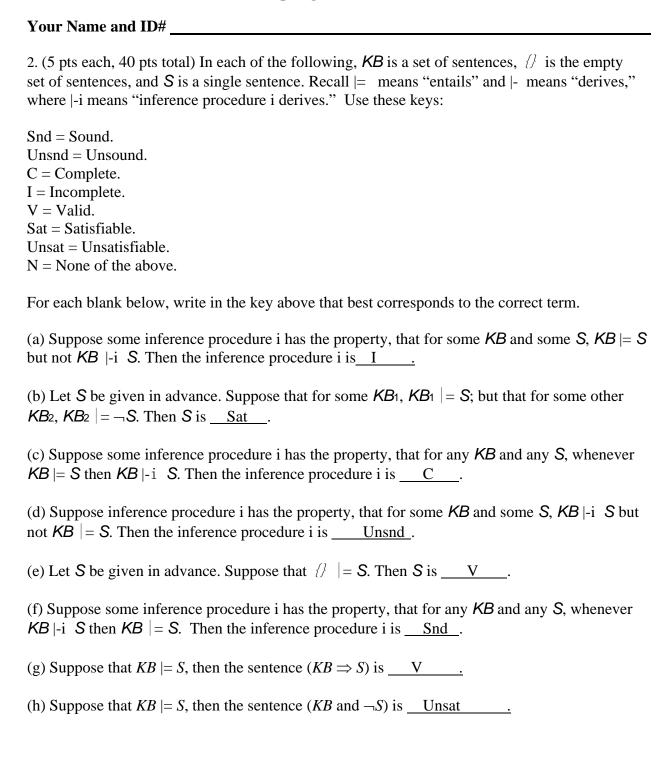
Homework #6, CS-271, Intro to AI, Spring Quarter 2010

Your Name and ID#								
Correcte	d By Name	and ID#						
premises Premises	to true conc are shown a	clusions) or U (= unsound, may c	ning patterns as S (= sound, carries true carry true premises to false conclusions). we the line. Here, " \Rightarrow " means "implies" as an example.					
a. <u>S</u>	$\begin{array}{c} P \Rightarrow Q \\ \frac{P}{Q} \end{array}$	b. <u>U</u>	$ \begin{array}{c} P \Rightarrow Q \\ \underline{Q} \\ P \end{array} $					
c. <u>U</u>	$P \Rightarrow Q$ $P \text{ or } \neg Q$	d. <u>S</u>	$ \begin{array}{c} P \Rightarrow \neg Q \\ \underline{Q} \\ \neg P \end{array} $					
	$\begin{array}{c} P \Rightarrow Q \\ \hline \neg Q \\ \hline \neg P \end{array}$		$ \begin{array}{c} P \Rightarrow Q \\ \hline \neg P \text{ or } Q \end{array} $					
g. <u>U</u>	$ \begin{array}{c} \neg P \Rightarrow Q \\ \underline{P} \\ \neg Q \end{array} $							

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Your Name and	ID#				
3. Consider the K	B shown below.				
	pts total) Translate th ou as an example (it v				
A. <i>P V R</i> .	$P \vee R$				
$\mathbf{B.}\ Q \Rightarrow \ S.$	$\neg Q \lor S$				
$\mathbf{C.} P \Rightarrow \mathbf{Q.}$	$\neg P \lor Q$				
$\mathbf{D}.R \Rightarrow S.$	$\neg R \lor S$				
of the symbol -, a	and the resulting clauseled "E." adds the neg	se after `	You may no	ot require all	
of the symbol \mid -, a The sentence label E. $\neg S$	and the resulting claudled "E." adds the neg	se after `gated goal. `	You may no The first on	ot require all e is done for	of the lines prov
of the symbol \mid -, a The sentence labe E. $\neg S$ (a) $\underline{ \neg S}$	ind the resulting claudled "E." adds the neg	se after `gated goal. `	You may no The first on	ot require all e is done for	of the lines prov
of the symbol \mid -, a The sentence labe E. $\neg S$ (a) $\underline{\neg S}$	and the resulting clause led "E." adds the neg $ -\frac{QVS}{\sqrt{PV}} $	se after `\ gated goal. `\	You may no The first on \(\square \frac{Q}{\square P} \)	ot require all e is done for 	of the lines prov
of the symbol \mid -, a The sentence labe E. $\neg S$ (a) $\underline{\neg S}$ (b) $\underline{\neg Q}$ (c) $\underline{\neg P}$	ind the resulting claudled "E." adds the neg	se after \\ gated goal. 7	You may no The first on $\frac{\neg Q}{\neg P}$	ot require all e is done for 	of the lines prov
of the symbol $ -, a $ The sentence labe E. $\neg S$ (a) $\underline{\neg S}$ (b) $\underline{\neg Q}$ (c) $\underline{\neg P}$ (d) \underline{R}	and the resulting clause led "E." adds the neg selection of the selection	se after \\ gated goal. 7	You may no The first on $\frac{\neg Q}{\neg P}$ R	ot require all e is done for	of the lines prov
of the symbol $ -, a $ The sentence labe E. $\neg S$ (a) $\underline{\neg S}$ (b) $\underline{\neg Q}$ (c) $\underline{\neg P}$ (d) \underline{R} (e) \underline{S}	and the resulting clause led "E." adds the negligible of the segment of the segm	se after Nated goal. 7	You may not the first on $\frac{\neg Q}{\neg P}$	ot require all e is done for	l of the lines prov
of the symbol $ -, a $ The sentence labe E. $\neg S$ (a) $\underline{ \neg S}$ (b) $\underline{ \neg Q}$ (c) $\underline{ \neg P}$ (d) $\underline{ R}$ (e) $\underline{ S}$ Other proofs are form	and the resulting clausiled "E." adds the negligible of the segment of the segme	se after Nated goal. To gated goal. To gated goal. To gated goal. To gate goal. To	You may not the first on $\frac{\neg Q}{\neg P}$ R S Exercise (d) above	ot require alle is done for the control of the cont	l of the lines prov