Quiz 4

Due May 10 at 10:10am **Time Limit** 10 Minutes

Points 5

Questions 5

Available May 10 at 10am - May 10 at 10:30am 30 minutes

Instructions

This quiz is based on propositional logic. It is closed book and notes.

This quiz was locked May 10 at 10:30am.

Attempt History

Correct!

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	2.33 out of 5

Score for this quiz: **2.33** out of 5 Submitted May 10 at 10:10am This attempt took 10 minutes.

Question 1	1 / 1 pts
A knowledge base KB entails a sentence S if and only if	
The models of KB are identical to the models of S	
The models of KB and the models of S overlap	
The models of KB are a subset of the models of S	

	The models of S are a subset of the models of KB		
	Question 2	/ 1 pts	
	Which of the following claims is true for the propositional sentence: $(\lnot P \lor \lnot Q) \land (P \lor Q) \land (\lnot P \lor Q)$	$(\neg Q) \wedge (P \lor Q) \wedge (\neg P \lor Q)$	
Correct Answer	The sentence is satisfiable but not valid		
	The sentence is both valid and satisfiable		
You Answered	The sentence is neither satisfiable nor valid		
	The sentence is valid but not satisfiable		
	Question 3 0.67	/ 1 pts	
	Indicate all of the following sentences which are equivalent to the sentence $P \Leftrightarrow Q$		

You Answered

 ${\color{red} \blacksquare} \ (P \lor Q) \land (\neg P \lor \neg Q)$

Correct!

Correct!

Correct!

Question 4

0.67 / 1 pts

Which of the following inference rules are sound?

 $Q,P\Rightarrow Q$ P

Correct Answer

Correct!

Correct!

 $P,P\Rightarrow Q$

Question 5

0 / 1 pts

Which of the following sentences completely and correctly represents what we know about breeze in cell (1,1) in the Wumpus world?

You Answered

Correct Answer

$$\bigcirc \ B_{1,1} \Leftrightarrow (P_{1,2} \vee P_{2,1})$$

$$\bigcirc \ (P_{1,2} \vee P_{2,1}) \Rightarrow B_{1,1}$$

$$\bigcirc \ B_{1,1} \Rightarrow (P_{1,2} \vee P_{2,1})$$

Quiz Score: 2.33 out of 5