

**START OF QUIZ**

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## Question 1

Topic: Topic3

Source: Lecture 3

Prove that  $A \leftrightarrow B \iff A \rightarrow B \text{ and } B \rightarrow A$

## Question 2

Topic: Topic3

Source: Lecture 3

Given the following ambiguous sentence, give both meanings in unambiguous FOL. The garbage truck has four wheels and flies.

### Question 3

Topic: Topic4

Source: Lecture 4

What is the purpose of an ontology?

## Question 4

Topic: Topic4

Source: Lecture 4

Make a brief argument about whether WordNet should be considered an ontology or a knowledge base.

## Question 5

Topic: Topic1

Source: Lecture 1

What is the relationship between a tree and its roots?

## Question 6

Topic: Topic1

Source: Lecture 1

Why is Wu-Palmer similarity more reliable than path similarity?

## Question 7

Topic: Topic2

Source: Lecture 2

In class, I mentioned that we rarely do WSD explicitly, because we would need one model per word. In COLX 521, we saw that we could lemmatize words to reduce them to a common form. Why couldn't we do something similar (like reducing all synonyms to a common hypernym) for WSD?



## Question 8

Topic: Topic2

Source: Lecture 2

Describe why the “most frequent sense” baseline is so strong. What are some assumptions that it makes?

## Question 9

Topic: Coding

Source: Lecture 4

Give an example of 3 RDF statements, other than we described in class. (ie, an example of an inverse relationship is ...; an example of a transitive relationship is ...)

**END OF QUIZ**