

**START OF QUIZ**

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## Question 1

Topic: Lecture 2

Source: Lecture 2

What is the meaning of "One document, one sense" as it applies to Word Sense Disambiguation? (1)

## Question 2

Topic: Lecture 3

Source: Lecture 3

Given the following ambiguous sentence, give both meanings in unambiguous FOL. The lecturer said that there would be a test on Friday.

### Question 3

Topic: Lecture 1

Source: Lecture 1

What are the benefits of representing synonymy and hypernymy in a graph? Do you think there could be a better data structure or way of representing the information? Briefly explain. (2)

## Question 4

Topic: Lecture 1

Source: Lecture 1

Define the LCS. Why is it important for calculating word similarity? (2)

## Question 5

Topic: Lecture 3

Source: Lecture 3

Prove that  $A \leftrightarrow B \iff A \rightarrow B \ \& \ B \rightarrow A$  (1)

## Question 6

Topic: Lecture 4

Source: Lecture 4

How would you describe the following sentence in FOL (you don't need to write the FOL statement - just describe how it would be structured)? You have to dream before your dreams can come true.

## Question 7

Topic: Lecture 4

Source: Lecture 4

What is the purpose of an ontology? (1)



## Question 8

Topic: Lecture 2

Source: Lecture 2

What is the purpose of a dictionary gloss? (1)

## Question 9

Topic: Long

Source: Lecture 4

Links in an ontology can be considered as positive predicates (ie, attributes and relationships that exist). Do you think it is worthwhile to create negative predicates (ie, Hamlet is not alive), etc.? What might be some benefits and disadvantages of such an approach, and does one outweigh the other? (3)

**END OF QUIZ**