

**START OF QUIZ**

**Student ID:**

**84574284, Cheng, Yushun**

## Question 1

Topic: Lecture 1

Source: Lecture 1

What is the relationship between sweet and sour?

## Question 2

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 3

Topic: Lecture 3

Source: Lecture 3

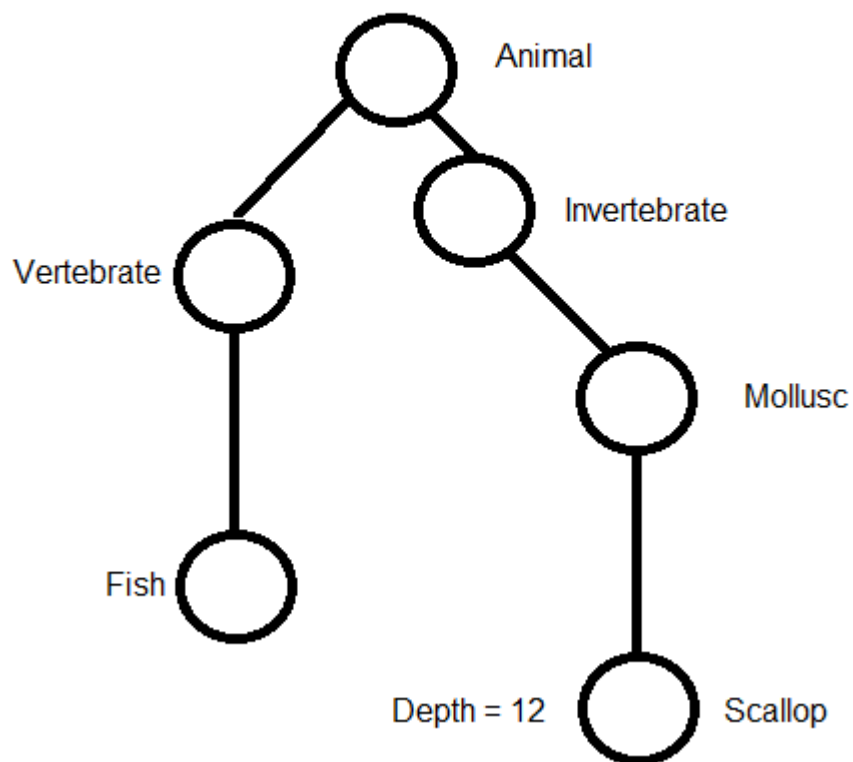
Given the following ambiguous sentence, give both meanings in unambiguous FOL. The lecturer said that there would be a test on Friday.

## Question 4

Topic: Lecture 1

Source: Lecture 1

Given the following tree, what is the path similarity between the two leaf nodes?



## Question 5

Topic: Lecture 2

Source: Lecture 2

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

## Question 6

Topic: Lecture 4

Source: Lecture 4

What is the purpose of an ontology? (1)

## Question 7

Topic: Lecture 3

Source: Lecture 3

Given the following ambiguous sentence, give both meanings in unambiguous FOL. Visiting friends can be annoying.



## Question 8

Topic: Lecture 2

Source: Lecture 2

In class, I mentioned that we rarely do WSD explicitly, because we would need one model / 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? (2)

## Question 9

Topic: Long

Source: Lecture 3

Write an FOL representation for the following sentences: Bats are the only mammals that fly. All squares are rectangles, but not all rectangles are squares. Vegetarians get protein from sources other than meat.

Some oranges are red.

**END OF QUIZ**