

**START OF QUIZ**

**Student ID:**

**74035403,Zheng,Meiyu**

## Question 1

Topic: Lecture 3

Source: Lecture 3

Give an example of a sentence where the subject is also the theme of the sentence (hint: it might have a special sentence structure). (1)

## Question 2

Topic: Lecture 4

Source: Lecture 4

Can you think of a way to combine the two neural SRL models we looked at in class? (1)

### Question 3

Topic: Lecture 4

Source: Lecture 4

If we were to attempt joint NER and SRL, how would we set up the model? Describe the input, the architecture, and the output. (2)

## Question 4

Topic: Lecture 2

Source: Lecture 2

In the sentence: “I have not gone by the name of ‘Obi-wan Kenobi’ since before you were born.”, how do we know that he has not gone back to using the name? (1)

## Question 5

Topic: Lecture 3

Source: Lecture 3

How can semantic roles be used to identify relations in relation extraction? How can they help us identify false positives from our system? (2)

## Question 6

Topic: Lecture 1

Source: Lecture 1

Why are CRFs generally preferable to HMMs when it comes to NER? (1)

## Question 7

Topic: Lecture 1

Source: Lecture 1

Give a BIO tagging of the following sentence: “On the 24th of February 1815, the lookout at Notre-Dame de la Garde signalled the arrival of the three-master Pharaon, coming from Smyrna, Trieste and Naples.” (2)



## Question 8

Topic: Lecture 2

Source: Lecture 2

If we're building a CRF for relation extraction, what other NLP tools might be useful for generating feature vectors? (At least 3) (1)

## Question 9

Topic: Coding

Source: Lecture 3

Identify all of the theta-roles in the following sentences: It all began with the forging of the Great Rings. Three were given to the Elves; immortal, wisest and fairest of all beings. Seven were handed to the Dwarf Lords, great miners and craftsmen of the mountain halls. And nine, nine rings were gifted to the race of Men, who above all else desire power. For within them was bound the strength and will to govern each race. But they were all of them deceived... for another ring was made. (3)

**END OF QUIZ**