

# START OF QUIZ

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## Question 1

Topic: Lecture 2

Source: Lecture 2

What are the steps necessary for normalizing temporal events? (1)

## Question 2

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 3

Topic: Lecture 1

Source: Lecture 1

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

## Question 4

Topic: Lecture 3

Source: Lecture 3

The sentences “The man ate a sandwich” and “The sandwich ate a man” are both syntactically correct (DET NN VB DT NN), but only the first one is semantically correct. With reference to theta roles, explain why this is the case. (1)

## Question 5

Topic: Lecture 4

Source: Lecture 4

We talked about a few other constraints for the ILP solver, such as making sure that "ARG0 must occur before ARG1". How would you implement this as an ILP constraint? (You don't need to write the pulp code - just explain how you would force the constraint.) (2)

## Question 6

Topic: Lecture 1

Source: Lecture 1

Explain one way that NER tagging is similar to POS tagging, and two ways it's different. (1)

## Question 7

Topic: Lecture 3

Source: Lecture 3

Roles like “Subject / Object” don’t translate very well across some languages (most notably between Nominative-Accusative languages like English, and Ergative-Absolutive languages, like Basque). Do you think that semantic roles are more likely to be consistent? Briefly explain why or why not. (2)



## Question 8

Topic: Lecture 2

Source: Lecture 2

Explain how relation extraction and named entity recognition are related, and how they differ. (1)

## Question 9

Topic: Coding

Source: Lecture 2

Write code that uses a list of RDF triples to discover more through bootstrapping. (3)

**END OF QUIZ**