

**START OF QUIZ**  
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## Question 1

Topic: Lecture 7

Source: Lecture 7

Times in Python datetime do not necessarily correspond to a particular, unique moment in time (e.g. the exact moment someone was born). What needs to be true of them in order for them to represent a specific moment in time? (1)

## Question 2

Topic: Lecture 6

Source: Lecture 6

Which of the following Tweets is most likely to be sarcastic? Give a brief explanation of why.

- A. That sounds like a really great idea! #Awesome!
- B. That sounds like a reeeeeeeally great idea!
- C. That sounds like a really great idea! ( \_ )
- D. That sounds like a really great idea! :+1: (2)

### Question 3

Topic: Lecture 6

Source: Lecture 6

How does modeling author personality help in the detection of sentiment (think about how it might help us determine sarcasm or interpret reviews). (2)

## Question 4

Topic: Lecture 7

Source: Lecture 7

Can you think of any biases that exist in the datetime library? If you were redesigning the library, what added functionality might you add? (2)

## Question 5

Topic: Lecture 5

Source: Lecture 5

How does Kendall's Tau differ from other evaluation metrics we've seen? (ie, accuracy, F1, Precision, BLEU, etc.) (1)

## Question 6

Topic: Lecture 8

Source: Lecture 8

Why do memes present a unique challenge to CL tools? (1)

## Question 7

Topic: Lecture 8

Source: Lecture 8

Suggest one way that normalization of non-standard social data can help sentiment analysis, and one that can hurt it. (1)



## Question 8

Topic: Lecture 5

Source: Lecture 5

When is ordinal classification more suitable for sentiment analysis than binary classification (2 factors)? (1)

## Question 9

Topic: Long

Source: Lecture 5

A: Feature vector =  $(2,1)$ , rating = 2

B: Feature vector =  $(2,-1)$ , rating = 3

C: Feature vector =  $(-1,-1)$ , rating = 5

If we are doing SVM-based ranking, give at least one feature vector that can be used as a positive example for our binary SVM classifier, and one feature vector that can be used as a negative example.

Secondly, if the weight vector of our trained SVM classifier is  $(2,-2)$ , what is Kendall's Tau for the resulting ordinal classification of these 3 documents? (3)

**END OF QUIZ**