

**START OF QUIZ**

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## Question 1

Topic: Lecture 8

Source: Lecture 8

What is one similarity and one dissimilarity between emojis and emoticons? (1)

## Question 2

Topic: Lecture 7

Source: Lecture 7

Why is datetime functionality necessary? That is, why can't we just use the date and time separately? (1)

### Question 3

Topic: Lecture 6

Source: Lecture 6

Briefly describe valence, arousal, and dominance, and how they are used in emotion detection. (1)

## Question 4

Topic: Lecture 8

Source: Lecture 8

What properties of code-switched text are useful for identifying the language of the text?  
(List at least 2) (1)

## Question 5

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 6

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 7

Topic: Lecture 5

Source: Lecture 5

In class, we said that "fake" fake reviews are often too prototypical when they are generated by hand. Given the tools you're familiar with, how do you think we could generate fake reviews automatically? Do you think they would suffer from the same problem? (2)



## Question 8

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 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**