# START OF QUIZ Student ID: 12582557,li Chen,Mariana

Topic: Lecture 1 Source: Lecture 1

When would you choose to preserve the original case of text during data processing, rather than converting everything to lowercase? (1)

Topic: Lecture 4 Source: Lecture 4

Would you expect a higher or lower frequency of passive voice constructions in legal documents compared to casual conversation? Briefly explain your reasoning. (Remember that passive voice is a structure like "the tree was cut down", inverting the subject and object). (1)

Topic: Lecture 3 Source: Lecture 3

What is the Big O time complexity of finding the elements in a set that intersect with an iterable (ie, string, list, etc)? Briefly explain. (1)

Topic: Lecture 2 Source: Lecture 2

What role does linguistic annotation provide for corpora, specifically for computational linguistics? (1)

Topic: Lecture 4 Source: Lecture 4

Given a list of tuples where the first element is a string and the second is an integer, write a short piece of code to sort the list in descending order based on the second element. Briefly explain your approach. (1)

Topic: Lecture 1 Source: Lecture 1

You are given a sentence. Write a function to count how many words in the sentence start with a vowel, without using loops or list comprehensions. (2)

Topic: Lecture 2 Source: Lecture 2

If you were to analyze a corpus for stylistic differences, how might you determine: the formality of the language; whether it's written or spoken; its sentiment? Assume that we don't have existing ML tools or enough data to train one. (2)

Topic: Lecture 3 Source: Lecture 3

Lexicons are useful for initial text analysis but often lack the adaptability needed for advanced NLP tasks. Why is this the case? Provide at least 2 reasons with brief explanations. (2)

Topic: Long

Source: Lecture 1

Write a function that validates if a string matches a phone number format, such as (123) 456-7890. What types of invalid inputs should the function check for? Are there edge cases we would be willing to accept? How would we handle those? Write 3 test cases - 2 that should pass, and one that should fail. (3)

# END OF QUIZ