

**START OF QUIZ**  
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I agree that all answers provided are in my own words, and that I will not discuss the contents of this quiz with any of my fellow students until after the exam period has completed for everyone. Furthermore, any response that used generative AI tools has been rephrased into my own interpretation, and has been appropriately cited.

Signature: \_\_\_\_\_

## Question 1

Topic: Lecture 5

Source: Lecture 5

Describe the purpose of the various types of brackets in regexes, and how they differ. (1)

## Question 2

Topic: Lecture 5

Source: Lecture 5

There are two ways of matching a pattern against the start of a string. Describe them. (1)

### Question 3

Topic: Lecture 8

Source: Lecture 8

Why should you get into the habit of using "with open()"? Are there any downsides? (1)

## Question 4

Topic: Lecture 6

Source: Lecture 6

How would we find all images in an HTML document? (1)

## Question 5

Topic: Lecture 6

Source: Lecture 6

What kinds of tags might be useful in the following text (describe at least two): "But you liked Rashomon!" "That's not how I remember it!" (1)

## Question 6

Topic: Lecture 7

Source: Lecture 7

I mentioned in class that POS tagging is often viewed as a pre-processing step for many CL tasks. What assumptions are we making (at least 3) when including it in our NLP pipeline? Do you think these are reasonable assumptions, and if they fail, is it worth the effort to solve the problem, or just ignore POS tagging? (2)



## Question 7

Topic: Lecture 7

Source: Lecture 7

Do you think that we could do lemmatization before machine translation? Provide 1 argument that for why it might help, and one for why it might make things more complicated. List any assumptions that might make your answer more complicated. (2)

## Question 8

Topic: Lecture 8

Source: Lecture 8

In class, I mentioned that we always want to close a file correctly. Beyond freeing up system resources, it also "flushes the buffer", which ensures that any current read or write operations that are in the job queue, but haven't yet been processed, are completed. Knowing what you do about encodings, what is a possible ramification of not flushing the buffer? Explain at least 2. (2)

## Question 9

Topic: Long

Source: Lecture 5

In class, we've taken a brief look at both prefixes and suffixes, but there are other ways of inflecting words. "circumfixes" wrap around a word, such as the German past participle marker "ge-t" ("ich spiele" - "I play"; "ich habe gespielt" - I have played). Likewise, "infixes" occur inside of a word - "cupful" + Plural -> "cupsful", or in Tagalog: "bili" -> "to buy"; "bumili" -> "X is buying". Finally, "reduplication" occurs when part or all of a token is repeated to indicate some feature, such as repetition or future intent in Tagalog: "aray" -> "day"; "arayaray" -> everyday; "basa" -> "to read"; "babasa" -> "will read (in the future)". Which of these are best suited for regexes, and which features of regexes are they exploiting? Are there any that are mostly unsuited to regexes? Why? (3)

**END OF QUIZ**