

**START OF QUIZ**

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## Question 1

Topic: Lecture 7

Source: Lecture 7

Many times when speaking to an ASR dialogue agent (like Alexa), I will try to correct her while she is speaking, and she will completely ignore me. Provide a reasonable explanation of why you think that is. (1)

## Question 2

Topic: Lecture 8

Source: Lecture 8

How is it that Eliza can use words / phrases that she doesn't have in her templates? (1)

### Question 3

Topic: Lecture 5

Source: Lecture 5

ChatGPT differs significantly from even other neural Q/A systems. Provide at least 2 significant differences, and briefly describe them. (2)

## Question 4

Topic: Lecture 8

Source: Lecture 8

Imagine that we have a dialogue system trained with reinforcement learning. What part of a dialogue might result in a negative reward (ie, a penalty) to the system's policy algorithm?  
(2)

## Question 5

Topic: Lecture 7

Source: Lecture 7

We discussed slot error rate in class, but it's fully-supervised. Can you think of a distantly-supervised way to calculate essentially the same thing? (1)

## Question 6

Topic: Lecture 6

Source: Lecture 6

What tools are necessary to extract an RDF triple from a question? Provide at least 2, and briefly explain. (1)

## Question 7

Topic: Lecture 5

Source: Lecture 5

Describe the two ways that we can construct Q/A databases, and how they differ. (2)



## Question 8

Topic: Lecture 6

Source: Lecture 6

Explain the purpose of mean reciprocal rank, and how it works. (1)

## Question 9

Topic: Long

Source: Lecture 6

Watson was a very specialized tool designed specifically to play the game of Jeopardy. I've tried playing Jeopardy with ChatGPT, and it is terrible at it. Describe the process of fine-tuning ChatGPT to be better at Jeopardy. Describe at least 3 things that we would need to specifically train it to succeed at (ignore the "buzzing" in part). (3)

**END OF QUIZ**