

**START OF QUIZ**

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## Question 1

Topic: Lecture 5

Source: Lecture 5

How does Bert deal with the potentially infinite vocabulary required to answer questions? (1)

## Question 2

Topic: Lecture 6

Source: Lecture 6

Explain the purpose of mean reciprocal rank, and how it works. (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 6

Source: Lecture 6

What is the focus of the following question: “Do you know when Jaws was released”? (1)

## Question 5

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 6

Topic: Lecture 8

Source: Lecture 8

Why is it necessary to maintain a conversation history in a dialogue system (beyond just not asking the same question over and over again)? (1)

## Question 7

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 8

Topic: Lecture 7

Source: Lecture 7

Generate a frame for a “recommend a movie” dialogue action. It should have at least 5 slots to fill. (2)

## Question 9

Topic: Long

Source: Lecture 5

Imagine that we are using a Q/A system for movie recommendation (by asking questions like “What is a good movie like Shawshank Redemption?”). Bert is likely not going to be sufficient to answer this question. Describe how you could modify the Bert Q/A reader to find good answers. (3)

**END OF QUIZ**