ECS763U/ECS763P - Natural Language Processing - 2022/23 - Semester 1

Started on	Sunday, 8 January 2023, 9:31 PM
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Time taken	30 mins 7 secs
Grade	**7.33** out of 10.00 (**73**%)

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Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

New referents in a text are usually introduced with _____.

Select one:
a. definite noun phrases
b. indefinite noun phrases ✔

The correct answer is: indefinite noun phrases

Question **2**
Incorrect
Mark 0.00 out of 1.00
Flag question

Unsupervised approaches to anaphora resolution tend to outperform supervised approaches.

Select one:
True ✖
False

The correct answer is 'False'.

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

The second sentence in the pair of sentences: `He went to school. Bill did too.' contains _____.

Select one:
a. an anaphor
b. a verb phrase ellipsis ✔

The correct answer is: a verb phrase ellipsis

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

Read the text below and select which is a valid coreference chain: In the early stages of an infection the virus is able to deceive the body. Coronavirus can be running rampant in our lungs and airways and yet our immune system thinks everything is a-ok. "This virus is brilliant, it allows you to have a viral factory in your nose and feel completely well," says Prof Paul Lehner from the University of Cambridge. Our body's cells start releasing chemicals - called interferons - once they are being hijacked by a virus and this is a warning signal to the rest of the body and the immune system. But the coronavirus has an "amazing capability" of switching off this chemical warning, Prof Lehner says, "it does it so well you don't even know you're ill". He says when you look at infected cells in the laboratory you cannot tell they have been infected and yet tests show they are "screaming with virus" and this is just one of the "joker cards" the virus can play.

Select one:
a. {the virus, Coronavirus, this virus, it, the coronavirus, it, virus, the virus} ✔
b. {Coronavirus, the coronavirus, the virus}

The correct answer is: {the virus, Coronavirus, this virus, it, the coronavirus, it, virus, the virus}

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

Read the text below and select which is a valid coreference chain:

Chinese billionaire and Alibaba founder Jack Ma's absence from the final episode of Africa's Business Heroes television show that he created has been attributed to a "scheduling conflict".

In a response to a query from the BBC, an Alibaba spokesperson said: "Regarding the Africa Business Hero competition, Jack had to miss the final due to a scheduling conflict."

According to several media reports, Mr Ma has not been seen in public for two months, ever since he made what were seen as controversial comments about the Chinese banking system at a public event in Shanghai on 24 October.

Subsequently, the IPO of Ant Financial, the digital payments group affiliated to Alibaba, was shelved by regulators.

Alibaba would not confirm or deny Mr Ma's absence from public view, and would not comment on Mr Ma's current whereabouts.

Previously high profile Chinese personalities have disappeared from public view, only to reappear months later to deliver a contrite apology for their actions, and redeem themselves.

China watchers say it is unclear at the moment whether Mr Ma's absence should be seen as suspicious.

A former Alibaba employee has told the BBC that it is not unusual for him to lay low ahead of Chinese new year festivities.

But previous incidents regarding public figures like movie star Fan Bingbing have shown that disappearances of public figures can last for several months.

Alibaba's shares are currently almost 3% lower on the Hong Kong stock exchange.

Select one:
a. {Chinese billionaire and Alibaba founder Jack Ma, he, Jack, Mr Ma, he, Mr Ma, Mr Ma, Mr Ma, him} ✔
b. {Chinese billionaire and Alibaba founder Jack Ma, an Alibaba spokesperson, the IPO of Ant Financial, a former Alibaba employee, him}

The correct answer is: {Chinese billionaire and Alibaba founder Jack Ma, he, Jack, Mr Ma, he, Mr Ma, Mr Ma, Mr Ma, him}

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

According to the Soon et al 2001 boolean features, which of the following are TRUE for the ⟨antecedent i, anaphor j⟩ candidate pair ⟨John, Mr Mills⟩ in the sentence: 'John or Mr Mills, as he's otherwise known, was angry.'

Select one or more:
a. i and j are string matched
b. i is a pronoun
c. both i and j are proper names ✔
d. j is a demonstrative NP
e. i and j have number agreement ✔
f. i and j have gender agreement ✔

The correct answers are: both i and j are proper names, i and j have gender agreement, i and j have number agreement

Question **7**
Partially correct
Mark 0.33 out of 1.00
Flag question

According to the Soon et al 2001 boolean features, which of the following are TRUE for the ⟨antecedent i, anaphor j⟩ candidate pair ⟨John, she⟩ in the sentence: 'John told Lucy she had to go to school.'

Select one or more:
a. j is a pronoun ✔
b. i is a pronoun
c. i and j have number agreement ✔
d. i and j have gender agreement ✖
e. i and j are string matched
f. i and j have the same semantic class "person"

The correct answers are: j is a pronoun, i and j have number agreement, i and j have the same semantic class "person"

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

Assuming a simple 2-place predicate structure for the predicate 'like', select the lambda abstraction formula from the first sentence's meaning which is most suitable for directly resolving the verb phrase ellipsis in the second sentence of the following pair of sentences: "John likes Mary. Bill does too."

Select one:
a. $\lambda x. \lambda y. like(x, Mary)$
b. $\lambda x. like(x, x)$
c. $\lambda x. like(John, x)$
d. $\lambda x. \lambda y. like(y, Mary)$
e. $\lambda x. like(x, Mary)$ ✔

The correct answer is: $\lambda x. like(x, Mary)$

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following mention pairs is the positive example of coreference for training a mention pair classifier in the following passage?: "John went to town and saw Bill, who said hello to him. Bill, himself, was mad - in fact, he was enraged."

Select one:
a. ⟨John, himself⟩
b. ⟨John, him⟩ ✔
c. ⟨Bill, him⟩
d. ⟨him, himself⟩
e. ⟨John, he⟩

The correct answer is: ⟨John, him⟩

Question **10**
Incorrect
Mark 0.00 out of 1.00
Flag question

Assuming a simple 2-place predicate structure for the predicates 'like' and 'want', select the lambda abstraction formula from the first sentence's meaning which is most suitable for directly resolving the verb phrase ellipsis in the second sentence of the following pair of sentences: "John wants to like Mary. Bill does too."

Select one:
a. $\lambda x. want(x, like(x, Mary))$
b. $\lambda x. want(x, like(Mary, John))$
c. $\lambda x. want(like(John, Mary), x)$
d. $\lambda x. want(x, like(x, John))$
e. $\lambda x. want(x, like(John, Mary))$ ✖

The correct answer is: $\lambda x. want(x, like(x, Mary))$

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