

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

Started on	Friday, 23 December 2022, 2:59 PM
State	Finished
Completed on	Friday, 23 December 2022, 3:25 PM
Time taken	25 mins 52 secs
Grade	8.67 out of 10.00 (87%)

Question 1
Correct
Mark 1.00 out of 1.00
Flag question

In resolving the meaning of pronouns from possible antecedents, humans are more likely to notice ambiguities resolvable by considering hard constraints such as the gender and number of the antecedent being the same as the pronoun rather than those which require using softer preferences, such as antecedents appearing more recently to the pronoun being more likely to be antecedents than less recently mentioned candidates.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 2
Correct
Mark 1.00 out of 1.00
Flag question

The ground-truth co-reference chain in MUC co-reference terminology is called the _____.

Select one:

- ☐ a. response
- ☒ b. key ✓

The correct answer is: key

Question 3
Incorrect
Mark 0.00 out of 1.00
Flag question

As one reads a text, an underspecified forward reference to an entity not yet fully named in the text so far is called _____.

Select one:

- ☐ a. an anaphor
- ☐ b. a cataphor

The correct answer is: a cataphor

Question 4
Correct
Mark 1.00 out of 1.00
Flag question

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

Footballer Marcus Rashford has followed his free school meals campaign by launching a book club to help children enjoy the escapism of reading.

The Manchester United and England star has teamed up with Macmillan Children's Books to promote reading and literacy.

Books were "never a thing we could budget for as a family", he said.

"I only started reading at 17, and it completely changed my outlook and mentality." He said reading shouldn't be for "just those that can afford it".

The 23-year-old continued: "I wish I was offered the opportunity to really engage with reading more as a child.

"There were times where the escapism of reading could have really helped me. I want this escapism for all children."

Macmillan said the scheme would see a large number of books being given away to children from vulnerable and under-privileged backgrounds.

Rashford added: "We know there are over 380,000 children across the UK today that have never owned a book, children that are in vulnerable environments. That has to change."

A spokeswoman for the publisher said it would work with Rashford and charities to "find the most effective mechanisms to reach the children who need them".

Select one:

- ☐ a. {Footballer Marcus Rashford, we, child, we, the publisher}
- ☒ b. {Footballer Marcus Rashford, his, the Manchester United and England star, he, I, he, the 23-year-old, I, I, me, I, Rashford, Rashford} ✓

The correct answer is: {Footballer Marcus Rashford, his, the Manchester United and England star, he, I, he, the 23-year-old, I, I, me, I, Rashford, Rashford}

Question 5
Correct
Mark 1.00 out of 1.00
Flag question

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

Families on Universal Credit face "agonising uncertainty" after Rishi Sunak did not confirm what would happen to their benefits next year, campaigners say.

Universal Credit claimants were given a £20-a-week boost in response to the coronavirus pandemic in April.

The temporary rise is due to come to an end in April 2021.

The chancellor did not say whether the increase would be extended, or cut, in his spending review.

Speaking after delivering his statement to MPs, he said the increased payment would continue until next spring.

He added: "Let's get through winter, see where we are with the virus and what the economy looks and decide then how best to support people.

"Everyone can rest assured we remain committed to making sure we look after the most vulnerable in our society,"

Footballer and anti-poverty campaigner Marcus Rashford tweeted: "Is the Universal Credit uplift going to be taken away in April?"

Select one:

- ☐ a. {Rishi Sunak, the chancellor, his, his, he, he}
- ☐ b. {Rishi Sunak, MPs, we, we, we}

The correct answer is: {Rishi Sunak, the chancellor, his, his, he, he}

Question 6
Partially correct
Mark 0.67 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, he⟩ in the sentence: 'John remembered he had to go to school.'

Select one or more:

- ☐ a. j is a demonstrative NP
- ☒ b. both i and j are proper names ✓
- ☒ c. j is a pronoun ✓
- ☒ d. i and j have gender agreement ✓
- ☒ e. i and j have number agreement ✓
- ☐ f. i is a pronoun

The correct answers are: j is a pronoun, i and j have gender agreement, i and j have number agreement

Question 7
Correct
Mark 1.00 out of 1.00
Flag question

Select all of the following boolean features which are often used to determine whether a pronoun is an anaphor/co-referent of another phrase which is its candidate antecedent in the text. The anaphor candidate:

Select one or more:

- ☐ a. has the same number of words as the candidate antecedent.
- ☐ b. has the same number of characters as the candidate antecedent.
- ☒ c. has the same grammatical role as the candidate antecedent. ✓
- ☐ d. begins with the same character as the candidate antecedent.
- ☒ e. appears in a parallel grammatical structure to the candidate antecedent. ✓
- ☒ f. has gender agreement with the candidate antecedent. ✓

The correct answers are: has the same grammatical role as the candidate antecedent., appears in a parallel grammatical structure to the candidate antecedent., has gender agreement with the candidate antecedent.

Question 8
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following mention pairs is a negative 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, himself⟩
- ☐ d. ⟨Bill, he⟩
- ☐ e. ⟨himself, he⟩

The correct answer is: ⟨John, himself⟩

Question 9
Correct
Mark 1.00 out of 1.00
Flag question

Assuming a simple 2-place predicate structure for the predicates 'eat' and 'intend', 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: "Bill intends to eat Pizza. John does too."

Select one:

- ☐ a. $\lambda x. intend(x, eat(Bill, x))$
- ☐ b. $\lambda x. want(x, eat(x, Bill))$
- ☐ c. $\lambda x. intend(x, eat(Bill, Pizza))$
- ☒ d. $\lambda x. intend(x, eat(x, Pizza))$ ✓
- ☐ e. $\lambda x. intend(x, eat(Pizza, Bill))$

The correct answer is: $\lambda x. intend(x, eat(x, Pizza))$

Question 10
Correct
Mark 1.00 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. $\lambda x. want(x, like(x, John))$
- ☐ b. $\lambda x. want(like(John, Mary), x)$
- ☐ c. $\lambda x. want(x, like(Mary, John))$
- ☐ d. $\lambda x. want(x, like(John, Mary))$
- ☒ e. $\lambda x. want(x, like(x, Mary))$ ✓

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

Finish review

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Lecture live Zoom link for remote participants week 12 ▶

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