You are currently viewing Archive 2022 Site

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

Started on	Friday, 9 December 2022, 8:00 PM
State	Finished
Completed on	Friday, 9 December 2022, 8:48 PM
Time taken	48 mins 34 secs
Grade	7.67 out of 10.00 (77%)

Quiz navigation

1 2 3 4 5 6 7 8 9 10

Show one page at a time

Finish review

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

In the sentence ``Bill likes John', who is the subject of the sentence?

Select one:
- a. Bill
- b. John

The correct answer is: Bill

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

A set of grammar rules is designed to only parse one single sentence.

Select one:
- True
- False ✔

The correct answer is: 'False'.

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

A bottom-up CFG parsing algorithm considers the right hand side of the grammar rules first.

Select one:
- True ✔
- False

The correct answer is: 'True'.

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

Context Free Grammars work well for languages with freer word order than English.

Select one:
- True
- False ✔

The correct answer is: 'False'.

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

In this question refer to the Context Free Grammar lexicon and production rules below. According to these rules, which of the trees (a) or (b) is the correct syntax tree for the sentence ``I want a non-stop trip to Chicago''?

Lexicon:

$Noun \rightarrow$ flight | flights | breeze | trip | morning
$Verb \rightarrow$ is | prefer | like | need | want | fly | have
$Adjective \rightarrow$ cheapest | non-stop | first | latest | other | direct
$Pronoun \rightarrow$ me | I | you | it
$Proper\text{-}Noun \rightarrow$ Alaska | Baltimore | Los Angeles | Chicago | United | American
$Determiner \rightarrow$ the | a | an | this | these | that
$Preposition \rightarrow$ from | to | on| near | in
$Conjunction \rightarrow$ and | or | but

Production Rules:

Grammar Rules	Examples
$S \rightarrow NP\ VP$	I + want a morning flight
$NP \rightarrow Pronoun$	I
$\mid Proper\text{-}Noun$	Los Angeles
$\mid Det\ Nominal$	a + flight
$Nominal \rightarrow Nominal\ Noun$	morning + flight
$\mid Noun$	flights
$VP \rightarrow Verb$	do
$\mid Verb\ NP$	want + a flight
$\mid Verb\ NP\ PP$	leave + Boston + in the morning
$\mid Verb\ PP$	leaving + on Thursday
$PP \rightarrow Preposition\ NP$	from + Los Angeles

Select one:
- a. a
- b. b ✔

The correct answer is: a

Question **6**
Incorrect
Mark 0.00 out of 1.00
Flag question

In this question refer to the Context Free Grammar lexicon and production rules below. According to these rules, which of the trees (a) or (b) is the correct syntax tree for the phrase ``a morning flight''?

Lexicon:

$Noun \rightarrow$ flight | flights | breeze | trip | morning
$Verb \rightarrow$ is | prefer | like | need | want | fly | have
$Adjective \rightarrow$ cheapest | non-stop | first | latest | other | direct
$Pronoun \rightarrow$ me | I | you | it
$Proper\text{-}Noun \rightarrow$ Alaska | Baltimore | Los Angeles | Chicago | United | American
$Determiner \rightarrow$ the | a | an | this | these | that
$Preposition \rightarrow$ from | to | on| near | in
$Conjunction \rightarrow$ and | or | but

Production Rules:

Grammar Rules	Examples
$S \rightarrow NP\ VP$	I + want a morning flight
$NP \rightarrow Pronoun$	I
$\mid Proper\text{-}Noun$	Los Angeles
$\mid Det\ Nominal$	a + flight
$Nominal \rightarrow Nominal\ Noun$	morning + flight
$\mid Noun$	flights
$VP \rightarrow Verb$	do
$\mid Verb\ NP$	want + a flight
$\mid Verb\ NP\ PP$	leave + Boston + in the morning
$\mid Verb\ PP$	leaving + on Thursday
$PP \rightarrow Preposition\ NP$	from + Los Angeles

Select one:
- a. a
- b. b ✘

The correct answer is: a

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

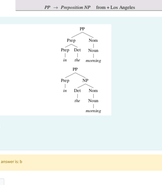
In this question refer to the Context Free Grammar lexicon and production rules below. According to these rules, which of the trees (a) or (b) is the correct syntax tree for the phrase ``in the morning''?

Lexicon:

$Noun \rightarrow$ flight | flights | breeze | trip | morning
$Verb \rightarrow$ is | prefer | like | need | want | fly | have
$Adjective \rightarrow$ cheapest | non-stop | first | latest | other | direct
$Pronoun \rightarrow$ me | I | you | it
$Proper\text{-}Noun \rightarrow$ Alaska | Baltimore | Los Angeles | Chicago | United | American
$Determiner \rightarrow$ the | a | an | this | these | that
$Preposition \rightarrow$ from | to | on| near | in
$Conjunction \rightarrow$ and | or | but

Production Rules:

Grammar Rules	Examples
$S \rightarrow NP\ VP$	I + want a morning flight
$NP \rightarrow Pronoun$	I
$\mid Proper\text{-}Noun$	Los Angeles
$\mid Det\ Nominal$	a + flight
$Nominal \rightarrow Nominal\ Noun$	morning + flight
$\mid Noun$	flights
$VP \rightarrow Verb$	do
$\mid Verb\ NP$	want + a flight
$\mid Verb\ NP\ PP$	leave + Boston + in the morning
$\mid Verb\ PP$	leaving + on Thursday
$PP \rightarrow Preposition\ NP$	from + Los Angeles



Select one:
- a. a
- b. b ✔

The correct answer is: b

Question **8**
Partially correct
Mark 0.67 out of 1.00
Flag question

In this question refer to the Context Free Grammar lexicon and production rules below. Select the minimal extra necessary production rules that would be needed to parse the sentence ``I need a flight to Paris from London'.

Production Rules
$S \rightarrow VP\ NP$
$VP \rightarrow Verb$
$VP \rightarrow Prep\ Noun$
$PP \rightarrow Prep\ Noun\ PP$
$NP \rightarrow NP\ PP$
$NP \rightarrow Det\ Noun$

Lexicon
$Verb \rightarrow book \mid need$
$Det \rightarrow the \mid a$
$Noun \rightarrow train \mid flight \mid Paris \mid London \mid I$
$Prep \rightarrow to \mid from$

Select one or more:
- a. $S \rightarrow PP\ VP$
- b. $NP \rightarrow Prep$
- c. $NP \rightarrow Noun$
- d. $PP \rightarrow Prep$
- e. $S \rightarrow NP\ VP$ ✔
- f. $VP \rightarrow Verb\ NP$ ✔

The correct answers are: $VP \rightarrow Verb\ NP$, $NP \rightarrow Noun$, $S \rightarrow NP\ VP$

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

In a Context Free Grammar, which of the following is the most general production rule for an imperative sentence of English?

Select one:
- a. $S \rightarrow NP\ PP$
- b. $S \rightarrow NP\ VP$
- c. $S \rightarrow Aux\ NP\ VP$
- d. $S \rightarrow VP\ NP$
- e. $S \rightarrow VP$ ✔

The correct answer is: $S \rightarrow VP$

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

Which of the following is NOT a syntactic constituent?

Select one:
- a. Sentence
- b. Propositional phrase
- c. Verb Phrase
- d. Noun Phrase
- e. Part-of-speech ✘

The correct answer is: Part-of-speech

Finish review

Student Life
Student email
My QMUL
Queen Mary Students' Union
Student Enquiry Centre
QMplus for students
Careers

Library
Library Landing Page
Library Website
Find it! Use it! Reference it!
Library Search
Subject Guides
Cite Them Right
Academic Skills

Archives
Archive
2021/22
2020/21
2019/20
2018/19
2017/18

Queen Mary University of London
©2022 Queen Mary University of London
Site policies and guidelines | Accessibility toolbar | Manual login