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

Started on	Sunday, 8 January 2023, 10:29 PM
State	Finished
Completed on	Sunday, 8 January 2023, 10:42 PM
Time taken	13 mins 51 secs
Grade	**9.33** out of 10.00 (**93%**)

Quiz navigation

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

What kind of ambiguity does the following sentence have? 'I shot an elephant running in my pyjamas'.

Select one:
- a. PP attachment ambiguity
- b. VP attachment ambiguity ✔

The correct answer is: VP attachment ambiguity

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

A top-down CFG parsing algorithm considers the right hand side of the grammar rules first.

Select one:
- True
- False ✔

The correct answer is 'False'.

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

The creation of a treebank principally involves _____.

Select one:
- a. parsing
- b. human expert annotation ✔

The correct answer is: human expert annotation

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

Formal grammar was traditionally designed to capture the syntax, semantics and pragmatics of natural language all at once.

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, is the following sentence is grammatical or ungrammatical according to this grammar?: ' book flight from Paris'

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

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:
- a. grammatical
- b. ungrammatical ✔

The correct answer is: ungrammatical

Question **6**
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 ' Chicago'?

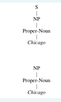
Lexicon:

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

(a)



(b)

Select one:
- a. a
- b. b ✔

The correct answer is: b

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 ' a morning flight'?

Lexicon:

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

(a)

(b)

Select one:
- a. a ✔
- b. b

The correct answer is: a

Question **8**
Partially correct
Mark 0.33 out of 1.00
Flag question

Which of the following are valid Context Free Grammar production rules?

Select one or more:
- a. $S \rightarrow VP$ ✔
- b. $S\ NP \rightarrow NP$ ✘
- c. $X \rightarrow Y\ Z$
- d. $S\ NP \rightarrow VP$
- e. $S\ Aux \rightarrow NP\ VP$ ✔
- f. $S \rightarrow Aux\ NP\ VP$

The correct answers are: $S \rightarrow VP$, $X \rightarrow Y\ Z$, $S \rightarrow Aux\ NP\ VP$

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

In a Context Free Grammar, which of the following is the appropriate production rule for a yes-no question in English?

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

The correct answer is: $S \rightarrow Aux\ NP\ VP$

Question **10**
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. $S \rightarrow Aux\ NP\ VP$
- b. $S \rightarrow VP$ ✔
- c. $S \rightarrow NP\ PP$
- d. $S \rightarrow VP\ NP$
- e. $S \rightarrow NP\ VP$

The correct answer is: $S \rightarrow VP$

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