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**NORTH AMERICAN  
UNIVERSITY**  
INSPIRATION INNOVATION GLOBAL COMPETENCE

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- 12 February > Homework 4

**Started on** Saturday, 11 February 2017, 1:08 AM**State** Finished**Completed on** Saturday, 11 February 2017, 1:17 AM**Time taken** 8 mins 51 secs**Marks** 6.00/7.00**Grade** **85.71** out of 100.00**Question 1**

Correct

Mark 1.00 out of 1.00

What is the lowest level syntactic unit?

Select one:

- ☐ a. EBNF
- ☐ b. grammar
- ☒ c. lexeme ✓
- ☐ d. BNF

Your answer is correct.

The correct answer is: lexeme

**Question 2**

Correct

Mark 1.00 out of 1.00

The sentences of the language are generated through a sequence of applications of the rules, beginning with a special nonterminal of the grammar called the start symbol. This sequence of rule applications is called a derivation.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

**Question 3**

Correct

Mark 1.00 out of 1.00

The following grammar is ambiguous:

$$\langle S \rangle \rightarrow \langle A \rangle$$
$$\langle A \rangle \rightarrow \langle A \rangle + \langle A \rangle \mid \langle \text{id} \rangle$$
$$\langle \text{id} \rangle \rightarrow a \mid b \mid c$$

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.


**Question 4**

Incorrect

Mark 0.00 out of 1.00

Operator precedence can be achieved in \_\_\_\_\_ grammars.

Select one:

- ☒ a. BNF 
- ☐ b. token
- ☐ c. non-ambiguous
- ☐ d. ambiguous

Your answer is incorrect.

The correct answer is: non-ambiguous


**Question 5**

Correct

Mark 1.00 out of 1.00

A grammar that generates a sentential form for which there are two or more distinct parse trees is said to be \_\_\_\_\_.

Select one:

- ☐ a. flexible
- ☒ b. ambiguous 
- ☐ c. unambiguous
- ☐ d. readable

Your answer is correct.

The correct answer is: ambiguous

**Question 6**

Correct

Mark 1.00 out of 1.00

Why should we study programming languages?

Select one:

- ☐ a. To be able to learn new languages more efficiently
- ☐ b. To increase our capacity to use different constructs
- ☐ c. To be able to select languages more effectively
- ☒ d. All of them ✓

Your answer is correct.

The correct answer is: All of them

**Question 7**

Correct

Mark 1.00 out of 1.00

In what language is most of UNIX written?

Select one:

- ☒ a. C ✓
- ☐ b. Cobol
- ☐ c. Java
- ☐ d. C++
- ☐ e. Python

Your answer is correct.

The correct answer is: C