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NORTH AMERICAN UNIVERSITY
INSPIRATION INNOVATION GLOBAL COMPETENCE

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Started on	Monday, 6 February 2017, 3:00 PM
State	Finished
Completed on	Monday, 6 February 2017, 3:10 PM
Time taken	10 mins
Marks	6.50/7.00
Grade	**92.86** out of 100.00

Question 1

Correct Mark 1.00 out of 1.00

The following grammar cannot produce?

<assign> → <id> = <expr>

<id> → A | B | C

<expr> → <expr> + <term>

| <term>

<term> → <term> * <factor>

| <factor>

<factor> → (<expr>)

| <id>

Select one:

- a. A = (A+B) * 3 ✓
- b. C = (A+ (C + C)) * C
- c. A = (A+B) * C
- d. A = (B+B) * C

Your answer is correct.

The correct answer is: A = (A+B) * 3

Question 2

Correct Mark 1.00 out of 1.00

A metalanguage is a language that is used to describe another language. BNF is a metalanguage for programming languages.

Select one:

- True ✓
- False

The correct answer is 'True'.

Question 3

Correct Mark 1.00 out of 1.00

In the following grammar we can say that:

<assign> → <id> = <expr>

<id> → A | B | C

<expr> → <expr> + <term>

| <term>

<term> → <term> * <factor>

| <factor>

<factor> → (<expr>)

| <id>

Select one:

- a. * has precedence over + ✓
- b. we cannot say anything about their precedence
- c. + and * have same precedence
- d. + has precedence over *

Your answer is correct.

The correct answer is: * has precedence over +

Question 4

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. unambigious
- b. ambiguous ✓
- c. flexible
- d. readable

Your answer is correct.

The correct answer is: ambiguous

Question 5

Correct Mark 1.00 out of 1.00

Operator precedence can be achieved in _____ grammars.

Select one:

- a. token
- b. ambiguous
- c. BNF
- d. non-ambiguous ✓

Your answer is correct.

The correct answer is: non-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 be able to select languages more effectively
- c. To increase our capacity to use different constructs
- d. All of them ✓

Your answer is correct.

The correct answer is: All of them

Question 7

Partially correct Mark 0.50 out of 1.00

Please match the steps for Hybrid Implementation process.

Step 3	Syntax Analyzer	✓
Step 5	~~Source Program~~	✗
Step 2	~~Interpreter~~	✗
Step 4	Intermediate Code Generator	✓
Step 1	~~Lexical Analyzer~~	✗
Step 6	Result	✓

Your answer is partially correct.

You have correctly selected 3.

The correct answer is: Step 3 → Syntax Analyzer, Step 5 → Interpreter, Step 2 → Lexical Analyzer, Step 4 → Intermediate Code Generator, Step 1 → Source Program, Step 6 → Result