Unit 11 Test

Your Score: **95%**
19 Correct out of **20**
Question **1** of **20**

Code _____ contain a large collection of prewritten program units.

- ○ editors

- ◉ libraries

- ○ toolkits

- ○ debuggers

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Question **2** of **20**

High-level languages must be translated into machine language prior to execution by a special piece of system software called a _____.

- ◉ compiler

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19 Correct out of **20**
Question **3** of **20**

_____ are syntactical units that are treated as single, indivisible entities for the purposes of translation.

- ◉ Tokens

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Question **4** of **20**

_____ optimization can produce enormous savings in time and space.

- ◉ Global

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Question **5** of **20**

A lexical analyzer is more commonly known as a _____.

- ◉ scanner

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Question **6** of **20**

The collection of all statements that can be successfully parsed is called the _____ defined by a grammar.

- ◉ language

If a branch of a parse tree does not produce code, the _____ must still create a semantic record for the new nonterminal .

- ◉ compiler

When the machine language code produced by the compiler does exactly what the high-level language statement describes, and nothing else, this is known as _____.

- ◉ correctness

_____ are the actual tokens of the language recognized and returned by a scanner.

- 🔘 Terminals

t is the task of the _____ to discard nonessential characters, such as blanks and tabs, and then group the remaining characters into high-level syntactical units such as symbols, numbers, and operators.

- 🔘 scanner

In the _____ phase, the sequence of tokens formed by the scanner is checked to see whether it is syntactically correct according to the rules of the programming language.

- 🔘 parsing

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The most widely used notation for representing the syntax of a programming language is called _____.

- 🔘 BNF

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During the compilation process, _____ is the next step after code generation.

- 🔘 code optimization

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High-level language and machine language are related _____.

- ⚪ many to one

- 🔘 one to many

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In addition to correctness, a compiler's second goal is that the code it produces should be reasonably _____.

- 🔘 efficient and concise

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In the field of compiler design, the process of diagramming a high-level language statement is called _____.

- 🔘 parsing

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_____ such as and must be further defined by one or more rules that specify the exact construction.

- 🔘 Nonterminals

If a parser cannot produce a(n) _____ for a high-level language statement, then that statement is not correctly formed.

- ⊙ parse tree

Assembly language and machine language are related _____.

- ⊙ one to one

For many years, _____ was viewed as the single most difficult research problem in computer science.

- ⊙ natural language understanding