### Starting Out with C From Control Structures through Objects Brief 7th Edition Gaddis Test Bank

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## **Chapter One**

#### MULTIPLE CHOICE

- 1. What does the term **hardware** refer to?
  - a. The relative difficulty of programming
  - b. The physical components that a computer is made of
  - c. The way a computer's storage space is organized
  - d. The logical flow of instructions
  - e. None of the above.

ANS: B

- 2. At the heart of a computer is its central processing unit. The CPU's job is:
  - a. To fetch instructions
  - b. To carry out the operations commanded by the instructions
  - c. To produce some outcome or resultant information
  - d. All of the above
  - e. None of the above

ANS: D

- 3. Which of the following best describes an operator?
  - a. An operator is a rule that must be followed when constructing a program.
  - b. An operator allows you to perform operations on one or more pieces of data.
  - c. An operator marks the beginning or ending of a statement, or is used to separate items in a list.
  - d. An operator is a word that has a special meaning.
  - e. An operator is a symbolic name that refers to a variable.

ANS: B

- 4. An Integrated Development Environment typically consists of:
  - a. A text editor
  - b. A compiler
  - c. A debugger
  - d. All of the above
  - e. None of the above

ANS: D

- 5. The purpose of a memory address is:
  - a. To identify the location of a byte in memory
  - b. To prevent multitasking
  - c. To obtain an algorithm
  - d. To improve the effectiveness of high-level languages
  - e. None of the above

ANS: A

- 6. The programming process consists of several steps, which include:
  - a. Input, Processing, and Output
  - b. Key Words, Operators, and Punctuation
  - c. Design, Creation, Testing, and Debugging

	<ul><li>d. Syntax, Logic, and Error Handling</li><li>e. None of the above</li></ul>
	ANS: C
7.	Programmer-defined names of memory locations that may hold data are: a. Operators b. Variables c. Syntax d. Operands e. None of the above.
	ANS: B
8.	Characters or symbols that perform operations on one or more operands are:  a. Syntax  b. Op codes c. Operators d. Program ops e. None of the above
	ANS: C
9.	The computer's main memory is commonly known as:  a. The hard disk  b. The floppy disk  c. RAM  d. Secondary storage  e. None of the above
	ANS: C
10.	The decodes an instruction and generates electrical signals.  a. Arithmetic and Logic Unit  b. Main memory  c. BIOS  d. Control Unit  e. None of the above
	ANS: D
11.	A(n) is a set of instructions that the computer follows to solve a problem.  a. Compiler b. Linker c. Program d. Operator e. None of the above
	ANS: C
12.	are used to translate each source code instruction into the appropriate machine language instruction.  a. Modules b. Library routines c. Compilers d. Preprocessor directives

e. None of the above

ANS: C

- 13. During which stage does the central processing unit retrieve from main memory the next instruction in the sequence of program instructions?
  - a. fetch
  - b. decode
  - c. execute
  - d. portability stage

ANS: A

- 14. What statement best describes a variable and its primary purpose?
  - a. A variable is a structured, general-purpose language designed primarily for teaching programming.
  - b. A variable is a collection of eight bits.
  - c. A variable is a word that has a special meaning to the compiler.
  - d. A variable is a named storage location in the computer's memory used for holding a piece of information.
  - e. A variable is a "line" of code in the body of a program, that may change.

ANS: D

- 15. This step will uncover any syntax errors in your program.
  - a. Editing
  - b. Compiling
  - c. Linking
  - d. Executing
  - e. None of these

ANS: B

- 16. This term refers to the programmer reading the program from the beginning and steping through each statement.
  - a. Pseudocoding
  - b. Software Engineering
  - c. Desk Checking
  - d. Spot Checking
  - e. None of the above

ANS: C

- 17. This is used in a program to mark the beginning or ending of a statement, or separate items in a list.
  - a. Separators
  - b. Punctuation
  - c. Operators
  - d. Key Words
  - e. None of the above

ANS: B

- 18. A set of well-defined steps for performing a task or solving a problem is known as a(n):
  - a. Hierarchy
  - b. Algorithm

- c. Central Processing Unit
- d. Encoded instruction
- e. None of the above

ANS: B

- 19. The statements written by the programmer are called:
  - a. Syntax
  - b. Object code
  - c. Source code
  - d. Runtime libraries
  - e. None of the above

ANS: C

- 20. Internally, the CPU consists of two parts:
  - a. The Output Device and the Input Device
  - b. The Software and the Hardware
  - c. The Control Unit and the Arithmetic and Logic Unit
  - d. The Single-task Device and the Multi-task Device
  - e. None of the above

ANS: C

- 21. Even when there is no power to the computer, data can be held in:
  - a. Secondary storage
  - b. The Input Device
  - c. The Output Device
  - d. The Algorithm
  - e. None of the above

ANS: A

- 22. Words that have a special meaning and may be used only for their intended purpose are known as:
  - a. Operators
  - b. Programmer Defined Words
  - c. Key Words
  - d. Syntax
  - e. None of the above

ANS: C

- 23. The name for a memory location that may hold data is:
  - a. Key Word
  - b. Syntax
  - c. Operator
  - d. Variable
  - e. None of the above

ANS: D

- 24. This is a complete instruction that causes the computer to perform some action.
  - a. Line
  - b. Statement
  - c. Variable

- d. Key Word
- e. None of the above

ANS: B

- 25. A variable declaration announces the name of a variable that will be used in a program, as well as:
  - a. The type of data it will be used to hold
  - b. The operators that will be used on it
  - c. The number of times it will be used in the program
  - d. The area of the code in which it will be used
  - e. None of the above

ANS: A

- 26. Three primary activities of a program are:
  - a. Variables, Operators, and Key Words
  - b. Lines, Statements, and Punctuation
  - c. Input, Processing, and Output
  - d. Integer, Floating-point and Character
  - e. None of the above

ANS: C

- 27. An example of a secondary storage device is:
  - a. The computer's main memory
  - b. The keyboard
  - c. The monitor
  - d. A hard disk
  - e. None of the above

ANS: D

- 28. During which stage does the central processing unit analyze the instruction and encode it in the form of a number, and then generate an electronic signal?
  - a. fetch
  - b. decode
  - c. execute
  - d. portability stage

ANS: B

- 29. Mistakes that cause a running program to produce incorrect results are called:
  - a. Syntax errors
  - b. Logic errors
  - c. Compiler errors
  - d. Linker errors
  - e. None of the above

ANS: B

- 30. Computer programs are also known as
  - a. hardware
  - b. firmware
  - c. software
  - d. silverware

	e. None of the above
	ANS: C
31.	Unix and Windows 2000 are examples of operating systems.  a. single tasking b. multi-tasking c. Macintosh d. command-driven e. None of these  ANS: B
22	This is a scalable to a set of a second of the terms of the second of th
32.	This is a volatile type of memory, used for temporary storage.  a. A floppy disk  b. ALU  c. RAM  d. A hard disk  e. None of the above
	ANS: C
33.	This is a set of rules that must be followed when constructing a program.  a. Syntax  b. Punctuation c. Portability d. Operators e. Key words
	ANS: A
34.	<pre>Which of the following is a preprocessor directive? a. pay = hours * rate; b. cin &gt;&gt; rate; c. // This program calculates the user's pay. d. int main() e. #include <iostream></iostream></pre>
	ANS: E
35.	The programmer usually enters source code into a computer using:  a. Pseudocode  b. A text editor  c. A hierarchy chart  d. A compiler  e. None of the above  ANS: B
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36.	In a broad sense, the two primary categories of programming languages are:  a. Mainframe and PC

- b. Single-tasking and Multi-taskingc. Low-level and High-level
- d. COBOL and BASIC
- e. None of the above

ANS: C

- 37. Which of the following is not one of the five major components of a computer system?
  - a. Preprocessor
  - b. The CPU (central processing unit)
  - c. Main memory
  - d. Input/Output device
  - e. Secondary storage device

ANS: A

- 38. In the process of translating a source file into an executable file, which of the following is the correct sequence?
  - a. Source code, preprocessor, modified source code, linker, object code, compiler, executable code.
  - b. Preprocessor, source code, compiler, executable code, linker, modified source code, object code.
  - c. Source code, compiler, modified source code, preprocessor, object code, linker, executable code.
  - d. Source code, preprocessor, modified source code, compiler, object code, linker, executable code.
  - e. Source code, linker, object code, compiler, modified source code, preprocessor, executable code.

ANS: D

#### TRUE/FALSE

1. Software engineering is a field that encompasses designing, writing, testing, debugging, documenting, modifying, and maintaining computer programs.

ANS: T

2. Pseudocode is a form of program statement that will always evaluate to "false."

ANS: F

3. In programming, the terms "line" and "statement" always mean the same thing.

ANS: F

4. In C++, key words are written in all lowercase letters.

ANS: T

5. The preprocessor executes after the compiler.

ANS: F

6. Machine language is an example of a high-level language.

ANS: F

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7. A CPU really only understands instructions that are written in machine language.

ANS: T