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Starting Out with C++: Early Objects, 9th ed. (Gaddis, Walters & Muganda) Chapter 1 Introduction to Computers and Programming

Chapter 1 Test 1 Key

- 1) The term hardware refers to
- A) the difficulty of programming.
- B) the physical components that make up a computer.
- C) the way a computer's storage space is organized.
- D) the fixed order of a program's instructions.
- E) none of the above.

Answer: B

- 2) At the heart of a computer is its central processing unit (CPU). Its job is to
- A) fetch instructions.
- B) carry out the operations commanded by the instructions.
- C) produce some result.
- D) do all of the above.
- E) do none of the above.

Answer: D

- 3) The CPU includes
- A) the arithmetic and logic unit (ALU) and the control unit.
- B) the ALU and the I/O unit.
- C) the I/O unit and the control unit.
- D) the ALU and the main memory unit.
- E) all of the above.

Answer: A

- 4) An integrated development environment (IDE) normally includes
- A) a text editor.
- B) a compiler.
- C) a debugger.
- D) all of the above.
- E) none of the above.

Answer: D

- 5) The purpose of a memory address is
- A) to identify the location of a memory cell.
- B) to allow multitasking.
- C) to prevent multitasking.
- D) to locate a program.
- E) none of the above.

Answer: A

6) True/False: Most of the lines in a program contain something meaningful; however, some of the lines may contain nothing at all.

Answer: TRUE

7) Creating a program requires many steps. Three of these are
A) input, processing, and output. B) keywords, operators, and punctuation.
C) program design, writing source code, and testing.
D) syntax, logic, and error handling.
E) none of the above.
Answer: C
8) Memory locations that can hold data are called
A) operators.
B) variables.
C) syntax.
D) operands.
E) none of the above. Answer: B
Answer: b
9) 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.
Answer: C
10) True/False: Before a computer can execute a program written in a high level language, such as C++, it must be translated into object code.
Answer: TRUE
11) The computer's main memory is commonly known as
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14) A(n) is a set of instructions that tells the computer now to solve a problem.	
A) compiler	
B) linker	
C) program	
D) operator	
E) variable	
Answer: C	
Allswer. C	
15) True/False: Once a value has been stored in a variable it cannot be changed.	
Answer: FALSE	
16) True/False: The purpose of the compiler is to convert object code into source code.	
Answer: FALSE	
17) C++ is an example of a programming language.	
A) low-level	
B) mid-level	
C) high-level	
D) binary	
E) non-structured	
Answer: C	
18) is used in a C++ program to mark the end of a statement, or to separate items in a list.	
A) A separator	
B) Punctuation	
C) An operator	
D) A keyword	
E) A blank space	
Answer: B	
19) A set of well-defined steps for performing a task or solving a problem is known as	
A) a hierarchy chart.	
B) a flowchart.	
C) a solution engine.	
D) an algorithm.	
E) software engineering.	
Answer: D	
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20) The statements written by a programmer are called	
A) syntax.	
B) object code.	
C) source code.	
D) language elements.	
E) none of the above.	
Answer: C	

Chapter 1 Test 2 Key

 Internally, the central processing unit (CPU) consists of two parts: A) input devices and output devices. B) software and hardware. C) the arithmetic and logic unit (ALU) and the control unit. D) single-task devices and multi-task devices. E) the compiler and the linker. Answer: C
2) Even when there is no power to the computer, data can be held in A) a secondary storage device. B) random accdss memory (RAM). C) variables. D) a computer program. E) any of the above. Answer: A
3) Words with a special meaning that may be used only for their intended purpose are known as A) single purpose words B) programmer-defined identifiers. C) keywords. D) syntax words. E) none of the above. Answer: C
 4) A storage location in the computer's memory that can hold a piece of data is called A) a variable. B) a number. C) a data cell. D) a storage box. E) RAM. Answer: A
5) A is a complete instruction that causes the computer to perform some action. A) line B) line number C) statement D) statement number E) programming construct Answer: C
6) True/False: If a new value is stored in a variable, it replaces whatever value was previously there. Answer: TRUE

- 7) A variable definition always specifies the name of a variable and tells
- A) what type of data it can hold.
- B) how many times it will be used in the program.
- C) the part of the code where it will be used.
- D) what its starting value is.
- E) all of the above.

Answer: A

- 8) Three primary activities of a typical program are
- A) creating variables, operators, and keywords.
- B) executing lines, statements, and keywords.
- C) reading, writing, and arithmetic.
- D) input, processing, and output.
- E) compiling, linking, and debugging.

Answer: D

- 9) Which of the following is an example of a secondary storage device?
- A) a hard disk drive
- B) a USB flash drive
- C) a CD
- D) a DVD
- E) all of the above

Answer: E

10) True/False: Most modern computers can understand and execute pseudocode.

Answer: FALSE

- 11) Mistakes that allow a program to run, but cause it to produce erroneous results are called
- A) syntax errors.
- B) logic errors.
- C) compiler errors.
- D) linker errors.
- E) none of the above.

Answer: B

12) True/False: Syntax involves rules that must be followed when writing a program.

Answer: TRUE

- 13) The programs that control and manage the basic operations of a computer are generally referred to as
- A) control programs.
- B) utility programs.
- C) system hardware programs.
- D) system software.
- E) computer application programs.

Answer: D

14) True/False: Executable code is computer code that contains no errors.

Answer: FALSE

15)	is an example of volatile memory, used for temporary storage while a program is running.		
A) A flas	h drive		
B) The A	LU		
C) RAM			
D) The C	PU		
E) A hard	l disk		
Answer:	C		
16) The p	rogrammer usually enters source code into a computer using		
	processor.		
B) a comp			
C) a linke			
D) a debı			
	of the above.		
Answer:	E		
17) High-	level programming languages include		
A) C++ aı	nd Java.		
B) C++ and JavaScript.			
C) C++ and Visual Basic.			
D) all of the above.			
	B, but not C.		
Answer:	D		
18) True/	False: IDE stands for internal data engine.		
Answer:	FALSE		
19) In the	C++ statement		
pay	= rate * hours;		
the * sym	abol is an example of		
A) an ope	erator.		
B) an ope	erand.		
C) a varia	able separator.		
D) syntax	ζ.		
E) none c	of the above.		
Answer:	A		
20) A sof	tware package that includes a text editor, compiler, debugger, and assorted utilities for creating		
testing, a	testing, and running software is called		
A) a low-	level programming language.		
B) a high	-level programming language.		
C) a softv	vare utility package (SUP).		
D) an ope	erating system.		
E) none c	of the above.		
Answer:	E		