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Starting Out with Java: From Control Structures through Objects 7e (Gaddis) **Chapter 1 Introduction to Computers and Java**

TF

RUI	E/FALSE
1.	Logical errors are mistakes that cause the program to produce erroneous results.
	ANS: T
2.	The Java Virtual Machine is a program that reads Java byte code instructions and executes them they are read.
	ANS: T
3.	Colons are used to indicate the end of a Java statement.
	ANS: F
4.	Compiled byte code is also called source code.
	ANS: F
5.	Application software refers to programs that make the computer useful to the user.
	ANS: T
6.	Each byte is assigned a unique number known as an address.
	ANS: T
7.	Encapsulation refers to the combining of data and code into a single object.
	ANS: T
8.	Java source files end with the .class extension.
	ANS: F
9.	
	ANS: T
10.	
	ANS: T
11	
11.	The computer is a tool used by so many professionals that it cannot be easily categorized.

	ANS: T				
12.	Without programmers, the users of computers would have no software, and, without software, computers would not be able to do anything.				
	ANS: T				
13.	The contents of a variable cannot be changed while the program is running.				
	ANS: F				
14.	14. Java source files end with the .class extension.				
	ANS: F				
15. When an object's internal data is hidden from outside code and access to that data is retrie object's methods, the data is protected from accidental corruption.					
	ANS: T				
MUL	TIPLE CHOICE				
1.	While is centered on creating procedures, is centered on creating objects				
	 a. procedural programming, object-oriented programming b. object-oriented programming, procedural programming c. routine programming, method programming d. procedural programming, class programming 				
	ANS: A				
2.	RAM is usually				
	 a. an input/output device b. a volatile type of memory, used for temporary storage c. secondary storage d. a static type of memory, used for permanent storage 				
	ANS: B				
3.	The two primary methods of programming in use today are				

- a. procedural and object-orientedb. hardware and software
- c. practical and theoretical
- d. desktop and mobile

ANS: A

- 4. Validating the results of a program is important to
 - a. correct runtime errors
 - b. make sure the program solves the original problemc. create a model of the program

 - d. correct syntax error

ANS: B 5. Software refers to a. programs b. the physical components a computer is made of d. data stored in RAM ANS: A 6. An object typically hides its data but allows outside code access to a. the pseudocode b. the methods that operate on the data c. private data members d. the data files ANS: B 7. Variables are a. symbolic names made up by the programmer and once created, their values cannot be b. operators that perform operations on one or more operands c. symbolic names made up by the programmer that represent memory locations d. reserved words ANS: C 8. _____ refers to the physical components that a computer is made of. a. Input c. Control unit d. Hardware b. Main memory ANS: D 9. A characteristic of _____ is that only an object's methods are able to directly access and make changes to an object's data. c. data hiding a. classes d. component reusability b. procedures ANS: C 10. Because Java byte code is the same on all computers, compiled Java programs a. are nonexistent b. must be re-compiled for each different machine before they can be run

c. are highly portable

d. cannot run on computers with different operating systems

ANS: C

11. A cross between human language and a programming language is called

a. a compiler

c. the Java Virtual Machine

b. pseudocode

d. the Java language

	ANS: B			
12.	Byte code instructions are			
	a. machine code instructionsb. syntax errorsc. read and interpreted by the JVMd. another name for source code			
	ANS: C			
13.	One type of design tool used by programmers when creating a model of a program is			
	a. the ALUb. byte code	c. d.	syntax pseudocode	
	ANS: D			
14.	Key words are			
	a. symbols or words that perform operationsb. words or characters representing values thc. the data names in your programd. words that have a special meaning in the p	at ar	e defined by the programmer	
	ANS: D			
15.	Computers can do many different jobs because they are			
	a. programmableb. reliable		automated electronic	
	ANS: A			
16.	A(n) is a software entity that cont	ains	data and procedures.	
	a. objectb. program	c. d.	class method	
	ANS: A			
17.	Application software refers to			
	a. the programs that make the computer usefb. the operating systemc. key wordsd. pseudocode	ul to	the user	
	ANS: A			
18.	The end of a Java statement is indicated by a			

ANS: C

a. bracket())

b. asterisk (*)

19. What is syntax?

a. the rules that must be followed when writing a program

c. semicolon(;)

d. colon(:)

	ng in the programming language operations in a program ned by the programmer						
	ANS: A						
20.	A set of programming language statemen	A set of programming language statements that perform a specific task is a(n)					
	a. pseudocode chartb. source code	c. objectd. procedure					
	ANS: D						
21.	The central processing unit (CPU) consists of two parts which are						
	 a. the input and output devices b. the control unit and the arithmetic and logic unit (ALU) c. the control unit and main memory d. the arithmetic and logic unit (ALU) and main memory 						
	ANS: B						
22.	There are bits in a byte.						
	a. 4 b. 8	c. 16 d. 32					
	ANS: B						
23.	A runtime error is usually the result of	A runtime error is usually the result of					
	a. a logical errorb. a syntax error	c. a compiler errord. bad data					
	ANS: A						
24.	A(n) is used to write computer programs.						
	a. pseudocode documentb. operating system	c. applicationd. programming language					
	ANS: D						
25.	refers to the physical components that a computer is made of.						
	a. The device	c. Software					
	b. Hardware	d. The system					
	ANS: B						
26.	A computer program is						
	a. the same as main memoryb. only used for desktop computersc. a set of instructions that allow the cod.d. another name for an operating syste	omputer to solve a problem or perform a task m					
	ANS: C						
27.	Which of the following is not part of the programming process?						

	a. defining and modeling the problemb. entering code and compiling itc. testing and debuggingd. All of these are parts of the programming	proce	ess			
	ANS: D					
28.	Computer programming is a. an art b. a science ANS: C	c. d.	both of the above neither of the above			
29.	The original name for Java was a. JavaScript b. HotJava ANS: D		Elm Oak			
30.	A program is a sequence of instructions stored a. the CPU b. the computer's memory ANS: B	c.	software firmware			
31.	 a. the CPU b. input/output devices c. main memory d. secondary storage devices e. All of the above are major components 	or coi	nponents of a typical computer system?			
	ANS: E					
32.	Byte code instructions are a. another name for source code b. syntax errors c. machine code instructions d. read and interpreted by the JVM ANS: D					
33.	Which of the following is a software entity that a. a method b. an object	c.	_			
	ANS: B					
34.	Each different type of CPU has its own a. syntax b. firmware ANS: C	c. d.	8 8			
35.	Internally, the central processing unit (CPU) ca. the control unit and the arithmetic/logic unit					

- b. the control unit and main memory
- c. the arithmetic/logic unit (ALU) and main memory
- d. the input and output devices

ANS: A

- 36. Java was developed by
 - a. Microsoft

c. Sun Microsystems

b. IBM

d. Hewlett-Packard

ANS: C

- 37. Which of the following will compile a program called ReadIt?

- a. java ReadIt.java
 b. java ReadIt.javac
 c. javac ReadIt.java
 d. javac ReadIt.javac

ANS: C

- 38. Which of the following will run the compiled program called ReadIt?
 - a. java Readit.java
- c. run ReadIt

b. java ReadIt

d. go ReadIt

ANS: B