TRUE/FALSE

1. The structure of the camelCase naming convention is to write the first word of the variable name in lowercase letters and then to capitalize the first character of the second and subsequent words.

ANS: T

2. The following two expressions will always yield identical results:

(a + b) / c a + b / c

ANS: F

3. An uninitialized variable is a variable that has been declared and automatically initialized to zero.

ANS: F

4. A sequence of characters that is used as data is called a string.

ANS: T

5. In a flowchart the symbol that represents an assignment statement is an oval.

ANS: F

6. Pseudocode is often used to plan out a program because the programmer does not have to worry about syntax rules.

ANS: T

7. A variable is a storage location in memory that is represented by a name and can hold different values during the execution of the program.

ANS: T

8. In a mathematical expression, addition and subtraction will be evaluated before multiplication.

ANS: F

9. Variable names cannot include spaces.

ANS: T

10. The variable name myBookTitle is written in camelCase convention.

ANS: T

11. Flowcharts and pseudocode documents are the same thing.

ANS: F

MULTIPLE CHOICE

1.	Which of the follo running?	owing erro	or types pro	oduces incorre	ect results bu	ut does not p	prevent the prog	ram from
	a. syntax	b.	logic	с.	human	d.	grammar	
	ANS: B							
2.	The program development development be found in the program.		cycle is ma	de up of	stej	ps that are re	epeated until no	errors can
	a. five	b.	four	c.	three	d.	two	
	ANS: A							
3.	is th	e informa	llanguage	used by progr	ammers to c	create model	s of programs.	
	a. Flowchartingb. Pseudocode				Algorithm Source cod			
	ANS: B							
4.	A(n)	_is a diagi	cam that gra	phically dep	icts the steps	s that take pl	ace in a program	n.
	a. flowchart				pseudocod	e document		
	b. algorithm			d.	code list			
	ANS: A							
5.	The appear.	structure	consists of	a set of stater	nents that ex	xecute in the	order in which	they
	a. control	b.	decision	с.	repetition	d.	sequence	
	ANS: D							
6.	A(n)	_ symbol i	s used for a	n assignment	statement in	n a flowchar	t.	
	a. parallelogram	n			processing			
	b. oval			d.	triangle			
	ANS: C							
7.	The	operator i	s used to ra	ise 5 to the s	econd power	r.		
	a. MOD	b.	*	c.	^	d.	/	
	ANS: C							
8.	What is the value	of the fol	lowing exp	ression?				
	12 - 4 *	3 / 2 -	+ 9					
	a. 21	b.	15	с.	-6	d.	2.18	

ANS: B

9. What is the value of the following expression?

	2. What is the value of the following expression? (12 - 4) * 3 / 2 + 9						
	a. 21 b. 15		-6 d. 2.18				
	ANS: A		u · _ ·				
10							
10.	Which of the following is not a variable data type?a. Integerc. Numeral						
	a. Integer b. Real		String				
	ANS: C						
11.	A(n) is a name that execution.	is a name that represents a value which cannot be changed during the program's tion.					
	a. uninitialized variableb. named constant		input variable named variable				
	ANS: B						
12.	The process of stepping through each of a program's statements, one by one, to see what each statement does is known as						
	a. debugging		hand tracing				
	b. executing	d.	bug checking				
	ANS: C						
12	The following is an example of	tatement.					
15.	The following is an example of	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
15.	Set rate = 6.25						
13.	Set rate = 6.25 a. declaration	с.	output				
13.	Set rate = 6.25 a. declaration b. input		output				
	Set rate = 6.25 a. declaration b. input ANS: D	c. d.	output assignment				
	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a	c. d. un actual programmi	output assignment ng language?				
	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a a. C++ b. Py	c. d. un actual programmi	output assignment				
14.	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a a. C++ b. Py ANS: C	c. d. un actual programmin thon c.	output assignment ng language? Pseudocode d. Java				
	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a a. C++ b. Py ANS: C What is the first step of the pro-	c. d. an actual programmin thon c. gram development c	output assignment ng language? Pseudocode d. Java				
14.	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a a. C++ b. Py ANS: C	c. d. an actual programmin thon c. gram development c	output assignment ng language? Pseudocode d. Java cycle? test executable code				
14.	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a a. C++ b. Py ANS: C What is the first step of the pro- a. write the code	c. d. un actual programmin thon c. gram development c c.	output assignment ng language? Pseudocode d. Java cycle? test executable code				
14.	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a a. C++ b. Py ANS: C What is the first step of the pro- a. write the code b. design the program	c. d. un actual programmin rthon c. gram development c c. d.	output assignment ng language? Pseudocode d. Java cycle? test executable code correct syntax errors				
14.	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a a. C++ b. Py ANS: C What is the first step of the pro- a. write the code b. design the program ANS: B What term is used for a string to a. string literal	c. d. un actual programmin thon c. gram development c c. d. hat appears in the ac c.	output assignment ng language? Pseudocode d. Java cycle? test executable code correct syntax errors etual code of a program? str				
14.	Set rate = 6.25 a. declaration b. input ANS: D Which of the following is <i>not</i> a a. C++ b. Py ANS: C What is the first step of the pro- a. write the code b. design the program ANS: B What term is used for a string t	c. d. un actual programmin rthon c. gram development c c. d. hat appears in the ac	output assignment ng language? Pseudocode d. Java cycle? test executable code correct syntax errors				

17.	What symbol is used to mark the beginning and end of a string?							
	 a. a slash (/) b. an asterisk (*) 		c. a quote mark ("d. a semicolon (;)	,				
	ANS: C							
18.	A variable declaration	typically specifies the va	variable's and					
	a. name, valueb. data type, value		c. number, named. name, data type					
	ANS: D							
19.	Which of the following would cause an error in a program?							
	a. attempting to store a floating-point value in a variable with Integer data typeb. attempting to store a floating-point value in a variable with String data typec. attempting to store an integer in a variable with String data typed. All of these would cause errors.							
	ANS: D							
20.	What is the value of th	e variable result in th	ne following expression	?				
	Set result =	6 + 8 * 4 / 2						
	a. 22	b. 7	c. 28	d. 10				
	ANS: A							
21.	21. What is the value of the variable result in the following expression? Set result = (6 + 8) * 4 / 2							
	a. 22	b. 7	c. 28	d. 10				
	ANS: C							
22. What is the value of the variable result in the following expression?								
	Set result = (6 + 8) / 4 * 2							
	a. 22	b. 7	c. 28	d . 10				
	ANS: B							
23.	What is the error in the following pseudocode?							
	Display "What is your name?" Input userName Declare String userName							
	b. The Input state	n invalid variable name. ement should be the first been used before it is dec						
	ANS: C							

24. What is the error in the following pseudocode?

```
Declare String user
Display "How many widgets do you want to buy?"
Input user
```

- a. user is an invalid variable name for this code.
- b. The Input statement should be the first statement.
- c. user has been used before it is declared.
- d. The input is a number, not a string.

ANS: D

25. What is the error in the following pseudocode?

```
Declare Integer widgets
Declare Real cost
Set widgets = 3.5
Set cost = widgets * 5
```

- a. widgets is an invalid variable name for this code.
- b. You cannot mix a Real variable and an Integer variable in a program.
- c. widgets has been declared as an Integer and cannot hold a floating-point value.
- d. There is no error.

ANS: C

COMPLETION

1. To _____ means to correct code that causes errors.

ANS: debug

2. A set of well-defined logical steps that must be taken to perform a task is known as a(n) ______.

ANS: algorithm

3. A(n) ______ symbol is used to represent input and output steps in a flowchart for a program.

ANS: parallelogram

4. The ______ operator performs division and returns the remainder.

ANS: modulus

5. A variable _______ statement specifies a variable's name and data type.

ANS: declaration

6. _____ documentation includes comments the programmer places in the code to explain how different parts of the program work.

ANS: Internal

7. _____ comments take up several lines and are used for lengthy explanations of parts of a program.

ANS: Block

8. A(n) ______ statement can be used to initialize multiple variables.

ANS: declaration

9. In a mathematical expression such as 57 * 6, the values 57 and 6 are called ______.

ANS: operands

10. When a mathematical calculation is performs, the result of the calculation is normally stored in a

ANS: variable

.____.

11. A program's ______ will typically display the result of the process or processes that it has performed.

ANS: output

12. To determine a program's ______ requirements, you must determine the pieces of data required for the program to complete its task.

ANS: input