CST-186	Chapter 6 Study Guide				
True/Fals e Indicate wi	e nether the statement is true or false.				
1.	Function docstrings aren't required by	ut are a good i	dea.		
2.	A function must receive at least one value and return at least one value.				
3.	The execution of a function always ends after a return statement.				
4.	A variable created in a function can be directly accessed outside of the function.				
5.	Once you use a keyword argument in a function call, all the remaining arguments must be keyword arguments.				
6.	Once you assign a default value to a parameter in a function header, you have to assign default values to all the parameters after it in the header.				
7.	Global variables can be accessed in any part of a program, but global constants can only be accessed in specified functions.				
8.	A local variable can be accessed in any part of a program.				
9.	Each function has its own scope.				
10.	It's impossible to change the value of	a global varia	able inside a function.		
Multiple (Identify the	Choice choice that best completes the statem	ent or answer	s the question.		
11.	What does the following code do?				
	<pre>def func(): print "A function at</pre>	your serv	ice."		
	a. define a functionb. call a function	c. d.			
12.	What will be displayed by the follow	ing code?			
	<pre>def display(): print "Hello", print "there!"</pre>				
	a. Hello there!b. there! Hello		Hello there!		

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13. What will be displayed by the following code? def display(): print "Hello", print "there!", display() a. Hello there! c. Hello b. there! Hello d. there! 14. What will be displayed by the following code? def display(): print "Hello", display() print "there!" a. Hello there! c. Hello b. there! Hello d. there! 15. What is def func(): in the following code? def func(): print "A function at your service." a. function header c. function call b. function definition function parameter 16. Where must the docstring of a function be placed? before the function as the last line of the function definition b. as the first line of the function definition d. in a separate file 17. What can a programmer-created function do? a. receive values c. All of these b. return values d. None of these 18. What do programmer created functions receive values through? arguments strings a. d. integers b. parameters _ 19. In the following code, what is message? def display(message): print message a. function header c. argument b. function body parameter

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20. What does the following code display? def rate(score): if score < 500: message = "Weak" elif score < 1000: message = "Not bad" else: message = "Nice score" rate(score = 750)print message c. Nice score a. Weak b. Not bad d. None of these __ 21. What does the following code display? def rate(score): if score < 500: message = "Weak" elif score < 1000: message = "Not bad" else: message = "Nice score" return message rate(score = 750)print message c. Nice score a. Weak b. Not bad d. None of these 22. What does the following code display? def rate(score): if score < 500: message = "Weak" elif score < 1000: message = "Not bad" else: message = "Nice score" return message print rate(score = 750)c. Nice score a. Weak b. Not bad d. None of these

23. In the following code, what is assigned to more? def triple(x):return x * 3 some = 10more = triple(some) a. a return value c. an argument b. a parameter d. a function 24. Which of the following is a valid function header? a. def init_graphics(width, height, depth=32): b. def init_graphics(width, height=600, depth): c. def init_graphics(width=800, height, depth): d. def init_graphics(800, 600, 32): ___ 25. What will the following code display? def announce(name, score): print name, "got a score of", score announce (1000, "Mike") a. Mike got a score of 1000 c. 1000 got a score of Mike b. name got a score of score d. None of these 26. What will the following code display? def announce(name="Chris", score=0): print name, "got a score of", score announce (1000) a. Chris got a score of 1000 c. 1000 got a score of Chris b. Chris got a score of 0 d. 1000 got a score of 0 27. In the following code, which variables are in the same scope? def func1(): a = 1b = 2def func2(): c = 3d = 4e = 5c. b and d a. a and b d. d and e b. a and c

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28. How many local variables are in the following code?

```
def func1():
    a = 1

def func2():
    b = 2
```

c = 3

a. 0

c. 2 d. 3

b. 1

__ 29. What will the following code display?

```
def func():
    x = 50
    print x,

x = 100
func()
print x
```

a. 50 50b. 50 100

c. 100 50

d. 100 100

__ 30. What will the following code display?

```
def func():
    global x
    x = 50
    print x,

x = 100
func()
print x
```

a. 50 50b. 50 100

c. 100 50

d. 100 100

Completion

Complete each statement.

2.1	A C 4:	' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
31	A function	is code that defines what a new function does.

- 32. A(n) ______ is a string that documents a function.
- 33. A function ______ is the first line of code that defines a function.
- 34. Software ______ is leveraging existing software in a new project.

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35.	A(n) parameter value is a value that a parameter gets if no value is passed to it.			
Matching				
	Match each item with a statement below			
	 a. Abstraction b. Argument c. Parameter d. Encapsulation e. Return value f. Keyword argument g. Scope h. Global variable i. Local variable j. Shadow 			
36.	A value returned by a function.			
37.	To hide a global variable inside a scope by creating a local variable of the same name.			
38.	A mechanism that lets you think about the big picture without worrying about the details.			
39.	A name inside the parentheses of a function header that can receive a value.			
40.	A variable that can be accessed in any part of a program.			
41.	An argument passed to a specific parameter using the parameter name.			
42.	An area of a program that's separate from other areas.			
43.	A value passed to a function parameter.			
44.	A variable that can be accessed only in the scope in which it was created.			
45.	A technique of keeping independent code separate by hiding the details.			
Short Ans	wer			
46.	Describe a real-life example of abstraction.			
47.	Describe a real-life example of encapsulation.			
48.	Name four ways that software reuse helps programmers.			
49.	How can default parameter values help programmers?			

50. How can global constants help programmers?