Test Bank for Introduction to Programming Using Python 1st Edition by Schneider IBSN 9780134089454

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Chapter 2

Multiple Choice (47) WARNING: CC	RRECT ANSWERS ARE IN TH	IE SAME POSITION AND T	AGGED WITH **.
YOU SHOULD RANDOMIZE THE LO	ATION OF THE CORRECT AN	ISWERS IN YOUR EXAM	

1.	In prog	ramming terminology, numbers are called numeric
	a.	literals **
	b.	expressions
	c.	operations
	d.	all of the above
	e.	none of the above
2.	A comb	pination of numbers, arithmetic operators, and parentheses that can be evaluated is
	called a	a numeric
	a.	expression **
	b.	operations
	c.	literal
	d.	all of the above
	e.	none of the above
3.	The na	mes given to values stored in memory in Python are called
	a.	variables **
	b.	quantities
	c.	statements
	d.	literals
4.	A state	ment of the form variableName = numericExpression is called a(n)
	a.	assignment statement **
	b.	arithmetic statement
	c.	expression
	d.	mathematical operation
5. In Python, v		on, variable names may begin with
	a.	a letter
	b.	an underscore
	c.	both a & b **
	d.	none of the above
6.	In Pyth	on, variable names may consist of
	a.	letters
	b.	digits

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	d.	all of the above **	
	e.	none of the above	
7.	. If the value of n is 3.14159, the function round(n) will return		
		3 **	
	b.	3.1	
	C.	a syntax error	
	d.	a logic error	
8.	Integer	division is accomplished using the operator.	
	a.	// **	
	b.	%	
	c.	/	
	d.	/=	
9.		mainder of an integer division is accomplished using the operator.	
	a.	% **	
	b.	//	
	C.	mod	
	d.	rem	
10.		tement a /= 5 is an example of a(n)	
		augmented assignment **	
		syntax error	
		logic error	
	d.	integer division	
11	In the f	ollowing numeric expression, what is evaluated first?	
11.	iii tiie i	4 * a + 7 / (x – y) + (n ** 3)	
	а	(x - y) **	
		(n ** 3)	
		4 * a	
		a + 7	
	u.	u.,	
12.	Gramm	natical and punctuation errors are called	
	a.	syntax errors **	
	b.	logic errors	
	C.	runtime errors	
	d.	bugs	
13.	A synta	x error is caught	

c. underscores

b.	during runtime when the program crashes
c.	during runtime when an unexpected result is given
d.	all of the above
14. An exa	mple of a runtime error is
a.	a misspelled function name
b.	an undeclared variable
C.	division by zero
d.	all of the above **
15. When	Python removes an orphaned object from memory, it is called
	garbage collection **
	memory sweeping
	variable abandoning
	redirection
1C \\/hat.	الله من المعانية والمعانية والمعاني
10. What v	vill the following line of Python display?
_	print (round(22.5))
a.	22 **
b.	23
	22.5
d.	this is a logic error
17. Which	variable name is invalid?
a.	X-ray **
b.	XRaY
c.	X_R_A_Y
	xray256
40 5	
•	on, string literals are surrounded by
a.	single quotes
b.	double quotes
C.	either a or b **
d.	none of the above
19. A sequ	ence of consecutive characters from a string is called a(n)
a.	slice **
b.	run
C.	group
d.	cut

a. by the interpreter **

20.	In the	string literal "Life, the universe and everything." the substring "verse" begins at position
		and ends at position
	a.	13, 17 **
	b.	12, 17
	c.	13, 18
	d.	12, 18
21.	When	referencing a substring such as str1[m:n] if m ≥ n then the value will be
	a.	the empty string **
	b.	the character at index m
	c.	the character at index n
	d.	a Traceback error message IndexError will occur
22.	Given	str1 = "Life, the universe and everything." what does str1.find("ve") return?
	a.	13 **
	b.	24
	c.	14
	d.	-1
23.	Given	str1 = "Life, the universe and everything." what does str1.rfind("ve") return?
	a.	24 **
	b.	25
	c.	13
	d.	-1
24.	Given	str1 = "Life, the universe and everything." what does str1.rfind("rev") return?
	a.	-1 **
	b.	26
	c.	15
	d.	0
25.	Combi	ning two strings to form a new string is called
	a.	concatenation **
	b.	joining
	c.	stringing
	d.	slicing
26.	What f	unction prompts a user to enter data?
	a.	input **
	b.	enter
	c.	prompt

d.	getInput
27. Given	the Python statement
	<pre>number = int(input("Enter a whole number: "))</pre>
what v	vill be the output if the user enters 17.9?
a.	a Traceback error message **
b.	17
C.	18
d.	17.1
28. Which	function converts a number to its string representation?
a.	str **
b.	toString
C.	convertToString
d.	sConvert
29. Comm	ents are useful for
a.	specifying the intent of the program **
b.	specifying how the interpreter should handle non-standard Python statements
C.	specifying which Python libraries the interpreter should use
d.	making a bunch of meaningless remarks that confuse programmers
30. In Pyth	on, you create a comment with the character(s)
a.	#
b.	##
c.	//
d.	a. or b. **
31. A good	I reason to include documentation in your program is
a.	to make your program easier for other people to understand
b.	to make your program easier for you to understand when you come back to it at a late
	point in time
c.	to make it easier to read long programs
d.	all of the above **
32. A long	statement can be split across multiple lines by ending each line, except the last, with the
charac	ter(s)
a.	\ **
b.	/
c.	//
d.	//

33.	For rea	dability purposes, you should not chain methods together.
	a.	more than three **
	b.	more than two
	C.	less than three
	d.	any
34.		sequences are short sequences that are placed in strings to instruct the cursor to
	permit	s special characters to be printed.
	a.	escape **
	b.	special
	c.	expandable
	d.	cursor
35.	The es	cape sequence for the newline character is
	a.	\n **
	b.	\nl
	c.	\t
	d.	\cr
36.	What h	nappens when a justification method is used to display string output but the string is
	longer	than the allocated width?
	a.	The justification method is ignored. **
	b.	The string is left justified.
	c.	The string is right justified.
	d.	A Throwback error is produced.
37.	Which	method removes all ending spaces and escape sequences in a string?
	a.	rstrip **
	b.	strip
	c.	remove
	d.	clean
38.	In Pyth	on, the term refers to any instance of a data type.
	a.	object **
	b.	type
	C.	list
	d.	entity
39.	Α	is a mutable ordered sequence of Python objects.
	a.	list **
	b.	tuple
	c.	both a & b

	u.	none of the above
40.		he <i>del</i> function or <i>remove</i> method are executed on a list, the items following the
		ated item are
		moved one position left in the list **
		moved one position right in the list
		do not change position in the list
	d.	are also removed from the list
41.	After t	he <i>insert</i> method is executed, items in the list having an index greater than or equal to the
	stated	index are
	a.	moved one position to the right in the list **
	b.	moved one position to the left in the list
	c.	do not change position in the list
	d.	none of the above
42.	In the	split method, if no separator is specified, the default is
	a.	any whitespace character **
	b.	a period (.)
	c.	a comma (,)
	d.	a number sign (#)
43.	Which	method turns a single string into a list of substrings?
	a.	split **
	b.	slice
	c.	join
	d.	splice
44.	Which	method converts a list of strings into a string value consisting of the elements of the list
	concat	enated together?
	a.	join **
	b.	slice
	c.	splice
	d.	split
45.	Given t	the Python statement
		value = (42, "universe", "everything)
	which:	statement is illegal in Python?
	a.	value.append(35)
	b.	value.extend([5, 7])
	c.	value.insert(1, "hitchhiker")

	d. all of the above **		
4	Which one of the following Python objects can be changed in place? a. list ** b. number c. string d. tuple		
4	Objects that cannot be changed in place are called a. immutable ** b. mutable c. static d. unchangeable		
True/	lse (28)		
1	The result of a division is always a float.		
Α	wer: true		
2	The result of a division is an int if the quotient evaluates to a whole number.		
Answer: false			
3	3. The result of a multiplication is a float if either of the numbers is a float.		
А	wer: true		
4	In a numeric expression, the operations inside parentheses are calculated last and from left t right if more than one pair of parentheses is present.	0	
А	wer: false		
5	Numeric expressions may not contain variables.		
Α	wer: false		
6	An assignment statement evaluates the expression on the left side of the = and then assigns value to the variable on the right.	its	
Α	wer: false		
7	A variable is created in memory the first time it appears on the left side of an assignment		

statement.

Answer: true

8. A variable must be created with assignment statement before it can be used in an expression.

Answer: true

9. Python is case-sensitive.

Answer: true

10. Reserved words cannot be used as variable names.

Answer: true

11. Function names are not case-sensitive.

Answer: false

12. Logic errors are the easiest type of error to locate.

Answer: false

13. When writing a string literal, opening and closing quotation marks must be the same type.

Answer: true

14. Variables cannot be assigned string values, only numeric values.

Answer: false

15. The first character of a string has index 1.

Answer: false

16. Chained methods are executed from right to left.

Answer: false

17. A string cannot be concatenated with a number.

Answer: true

18. Python does not allow for out of bounds indexing for individual characters of a string.

Answer: true

19. Python does not allow for out of bounds indexing for slices.

Answer: false

20. The backslash (\) is not considered to be a character.

Answer: true

21. When the *format* method is used to format a string, right-justify is the default justification.

Answer: false

22. In Python, a list may contain objects of any type but they must all be of the same type.

Answer: false

23. Values used in a Python program that reside in memory are lost when the program terminates.

Answer: true

24. Strings in a text file may be formatted with bold, italics, and color.

Answer: false

25. Tuples cannot be modified in place.

Answer: true

26. Tuples cannot be sliced.

Answer: false

27. Lists are mutable.

Answer: true

28. In general, tuples are more efficient than lists.

Answer: true

Short Answer (14)

1. What are the two types of numbers used in Python?

Answer: int and float

2. What is the output of the following Python statement? print (8 / 3, 4 * 7, 9 + 13, 2 ** 5, 6 * (3 + 2))

Answer: 2 28 22 32 30

3. Write a Python statement that creates a variable called size and assigns the value 77 to it.

```
Answer: size = 77
```

4. What will be the output of the following Python program?

```
x = 5

y = 7

print (abs(x - y) - 10)

print (int(x ** 2) + 1.4)

print(round(y + 3.14159, 2))

Answer: -8 26.4 10.14
```

5. Create a variable called speed and assign the value 50 to it. In a second statement, use an augmented assignment to add 15 to speed.

```
Answer: speed = 50
speed += 15
```

6. What is the output of the following Python program?

```
a = 3
b = 7
c = 11
d = 17
a += b
b *= c
c **= 2
d /= a
print (a, b, c, round(d))
Answer: 10 77 121 2
```

7. What is the output of the following Python program?

```
a = 31
b = 7
print (a // b, a % b)
```

Answer: 4 3

- 8. Write a Python program to convert 250 minutes to 4 hours and 10 minutes and prints the hours and minutes.
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```
Answer: totalMinutes = 250
hours = totalMinutes // 60
minutes = totalMinutes % 60
print (hours, minutes)
```

9. What is the output of the following Python program?

```
str1 = "it is what it is"
print(str1.find("is"), str1.rfind("it"), str1[-9:-7])
```

Answer: 3 14 ha

10. What is the output of the following Python program?

```
str1 = "it is what it is"
print(str1[-9:])
```

Answer: hat it is

11. What is the output of the following Python program?

```
str1 = "it is what it is"
print(str1[11:])
```

Answer: it is

12. Write a Python statement to prompt a user with "Enter a positive number:" and assigns the input to a variable called *number*.

```
Answer: eval(number = input("Enter a positive number:"))
```

13. What is the output of the following Python program?

```
print("never give up"[-12:4])
```

Answer: eve

14. Write a single Python statement that creates three variables, length, width, and height, and assigns the values 10, 14 and 5 respectively, to them.

```
Answer: length, width, height = 10, 14, 5
```

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