Chapter 5

TOTAL POINTS 10

1. What is wrong with this Python loop:

1 point

```
1   n = 5
2   while n > 0 :
3   |   print(n)
4   print('All done')
```

- ● This loop will run forever
- ○ The **print('All done')** statement should be indented four spaces
- ○ There should be no colon on the **while** statement
- ○ **while** is not a Python reserved word

2. What does the **break** statement do?

1 point

- ○ Jumps to the "top" of the loop and starts the next iteration
- ○ Resets the iteration variable to its initial value
- ○ Exits the program
- ● Exits the currently executing loop

3. What does the **continue** statement do?

1 point

- ○ Exits the program
- ● Jumps to the "top" of the loop and starts the next iteration
- ○ Exits the currently executing loop
- ○ Resets the iteration variable to its initial value

4. What does the following Python program print out?

1 point

```
1   tot = 0
2   for i in [5, 4, 3, 2, 1] :
3   |   tot = tot + 1
4   print(tot)
```

- ● 5
- ○ 0
- ○ 15
- ○ 10

5. What is the *iteration* variable in the following Python code:

1 point

```
1   friends = ['Joseph', 'Glenn', 'Sally']
2   for friend in friends :
3   |   print('Happy New Year:',  friend)
4   print('Done!')
```

- ● friend
- ○ Sally
- ○ Glenn
- ○ Joseph

6. What is a good description of the following bit of Python code?   `1 point`

```
1    zork = 0
2    for thing in [9, 41, 12, 3, 74, 15] :
3        zork = zork + thing
4    print('After', zork)
```

○ Find the smallest item in a list

○ Find the largest item in a list

● Sum all the elements of a list

○ Count all of the elements in a list

7. What will the following code print out?   `1 point`

```
1    smallest_so_far = -1
2    for the_num in [9, 41, 12, 3, 74, 15] :
3        if the_num < smallest_so_far :
4            smallest_so_far = the_num
5    print(smallest_so_far)
```

Hint: This is a trick question and most would say this code has a bug - so read carefully

● -1

○ 74

○ 42

○ 3

8. What is a good statement to describe the **is** operator as used in the following if statement: `1 point`

```
1    if smallest is None :
2        smallest = value
```

● matches both type and value

○ Is true if the **smallest** variable has a value of -1

○ Looks up 'None' in the **smallest** variable if it is a string

○ The if statement is a syntax error

9. Which reserved word indicates the start of an "indefinite" loop in Python?   `1 point`

○ break

○ def

● while

○ for

○ indef

10. How many times will the body of the following loop be executed?   `1 point`

```
1    n = 0
2    while n > 0 :
3        print('Lather')
4        print('Rinse')
5    print('Dry off!')
```

○ This is an infinite loop

○ 5

○ 1

● 0

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