

Chapter 5

Total points 10

Question 1

What is wrong with this Python loop:

1 / 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

Question 2

What does the *break* statement do?

1 / 1 point

Exits the program

Resets the iteration variable to its initial value

Jumps to the "top" of the loop and starts the next iteration

Exits the currently executing loop

Question 3

What does the *continue* statement do?

1 / 1 point

Exits the currently executing loop

Resets the iteration variable to its initial value

Exits the program

Jumps to the "top" of the loop and starts the next iteration

Question 4

What does the following Python program print out?

1 / 1 point

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

15

10

0

5

Question 5

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

1 / 1 point

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

friend

Glenn

Sally

friends

Question 6

What is a good description of the following bit of Python code?

1 / 1 point

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

Count all of the elements in a list

Sum all the elements of a list

Find the smallest item in a list

Find the largest item in a list

Question 7

What will the following code print out?

1 / 1 point

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

```
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)
```

-1

74

42

3

Question 8

What is a good statement to describe the **is** operator as used in the following if statement:

1 / 1 point

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

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

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

matches both type and value

The if statement is a syntax error

Question 9

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

indef

while

for

def

break

Question 10

How many times will the body of the following loop be executed?

1 / 1 point

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

5

1

This is an infinite loop

0