## Question 1

Consider the following nested list definition:

x = [10, [3.141, 20, [30, 'baz', 2.718]], 'foo']

What is the expression that returns the 'z' in 'baz'? \_\_\_\_\_\_\_\_\_

What expression returns the list ['baz', 2.718]? \_\_\_\_\_\_\_\_\_

Question 2

List a is defined as follows:

a = [1, 2, 3, 4, 5]

Select all of the following statements that remove the middle element 3 from a so that it equals [1, 2, 4, 5]:

del a[2]

a[2:3] = []

a.remove(3)

a[2] = []

Question 3

List a is defined as follows:

a = ['a', 'b', 'c']

Which of the following statements adds 'd' and 'e' to the end of a, so that it then equals ['a', 'b', 'c', 'd', 'e']:

a.extend(['d', 'e'])

a += 'de'

a[-1:] = ['d', 'e']

a.append(['d', 'e'])

a[len(a):] = ['d', 'e']

a += ['d', 'e']

Question 4

Assume x and y are assigned as follows:

x = 5

y = -5

What is the effect of this statement:

x, y = (y, x)[::-1]

Question 5

Assume list a is assigned as follows:

a = ['Mon', 'Tue', 'Wed', 'Thu', 'Fri']

What is the screen output of following statements:

a = ['Mon', 'Tue', 'Wed', 'Thu', 'Fri']

b = a

c = [b, a]

b.remove("Wed")

a.append("Sat")

print(a)

print(b)

print(c)

Question 6

What is the output of the following code snippet?

func = lambda x: return x

print(func(2))

Question 7

What is the output of the following code snippet?

myList = [1,2,3,4,5,3,2,1,2,3,4,2,3,2]

myList2 = myList.copy()

print(myList is mylist2)