1. What exactly is []?

List empty bracket

2. In a list of values stored in a variable called spam, how would you assign the value 'hello' as the third value? (Assume [2, 4, 6, 8, 10] are in spam.)

spam[2]=”hello”

Let's pretend the spam includes the list ['a', 'b', 'c', 'd'] for the next three queries.

3. What is the value of spam[int(int('3' \* 2) / 11)]?

'd'

4. What is the value of spam[-1]?

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

spam[-1]

'd'

5. What is the value of spam[:2]?

Let's pretend bacon has the list [3.14, 'cat,' 11, 'cat,' True] for the next three questions.

spam[:2]

['a', 'b']

6. What is the value of bacon.index('cat')?

bacon = [3.14, 'cat', 11, 'cat', True]

bacon.index('cat')

7. How does bacon.append(99) change the look of the list value in bacon?

bacon = [3.14, 'cat', 11, 'cat', True]

bacon.append(99)

bacon

8. How does bacon.remove('cat') change the look of the list in bacon?

bacon = [3.14, 'cat', 11, 'cat', True]

bacon.remove('cat')

bacon

9. What are the list concatenation and list replication operators?

l1 = [1,4]

l2 = [2,5]

l1+l2

10. What is difference between the list methods append() and insert()?

append() Appends object to the end of the list  
insert() Insert object before index

11. What are the two methods for removing items from a list?

List.remove()

Del item

12. Describe how list values and string values are identical.

1. Both lists and strings can be passed to len()
2. Have indexes and slices
3. Can be used in for loops
4. Can be concatenated or replicated
5. Can be used with the in and not in operators

13. What's the difference between tuples and lists?

LIST IS MUTABLE.

TUPLE IS IMMUTABLE.

14. How do you type a tuple value that only contains the integer 42?

Tup=(42)

15. How do you get a list value's tuple form? How do you get a tuple value's list form?

L1=tuple(42)

L1(1)

16. Variables that "contain" list values are not necessarily lists themselves. Instead, what do they contain?

They contain references to list values

How do you distinguish between copy.copy() and copy.deepcopy()?

The copy.copy() function will do a shallow copy of a list,