1. What exactly is []?

Empty list. No item is available in this list.

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)]?

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

spam[int(int('3' \* 2) /11)]

‘d’

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

‘d’

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

[‘a’, ‘b’]

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

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

1

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

[3.14, 'cat', 11, 'cat', True, 99]

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

[3.14, 11, 'cat', True, 99]

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

The operators for list concatenation is + , while the operator for replication is \*.

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

Append() mean its add value only to the end of a list.

Insert() mean its add the value anywhere in the list.

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

remove() and del statement

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

List are defined by this square brackets [ ]

String are defined by this inverted comma ‘’ or “”

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

Tuples are immutable we cannot add value in the tuples and list are mutable we can add the value in the list

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

(42)

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

list()

tuple()

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

They contain references to list values.

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

The copy.copy() function will do a shallow copy of a list, while the copy.deepcopy() function will do a deep copy of a list.