1. What exactly is []?

It is a square bracket parenthesis which is used to include list items. An empty pair of brackets [] denotes and empty 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)]?

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?

Concatenation is ‘=’ and replication is ‘\*’

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

Append method adds element at the end of the list and insert method adds element at the specified location.

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

pop(), remove()

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

Both list and string have length which is length of elements in list and length of characters in string. These elements or characters can be accessed by a number given called index.

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

Tuples are immutable and lists are mutable.

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?

L = [1,2,3]

T = {1,2,3}

list(T)

tuple(L)

using the above functions

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

The variable contains reference to the list values.

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

copy.copy() can’t copy whole list into another list but copy.deepcopy() can.