1. What exactly is []?

The empty list value, which is a list value that contains no items. This is similar to how '' is the empty string value.

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)]?

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 meaning in bacon?

[3.14, 11, 'cat', True]

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

For list concatenation we use operator + and for list replication we use \*

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

When we use append the new value is added at end of list , Using insert function we can add value anywhere in list.

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

Del statement and Remove () are two methods for removing items in list

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

List and strings’ can be concatenated ,indexed and used in loops.

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

Tuples are immutable and lists are mutable and parentheses of tuples is ()

And list is []

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

a=(42,)

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

The tuple() and list() functions, respectively

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. That is, only copy.deepcopy() will duplicate any lists inside the list.