1. What exactly is []?

Ans: [] is empty list which contains no item.

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.)

Ans. 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)]?

Ans: ‘d’

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

Ans: ‘d’

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

Ans: ['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')?

Ans. 1

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

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

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

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

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

Ans. Operator for list concatenation : +

Operator for list concatenation : \*

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

Ans. append() add the values at the end of list and insert() add the values at any index of list.

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

Ans. Using del statement and remove statement we can remove items from a list.

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

Ans. Both lists and strings have indexes and slices

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

Ans. Tuples are immutable and represented using () while lists are mutable and represented using []

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

Ans. (42,)

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

Ans. By using tuple() function we can get list values in tuple form and by using list[] function we can get tuple values in list form.

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

Ans. They contain references to list values.

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

Ans. The copy.copy() function will do slight copy of list and copy.deepcopy() function will duplicate any list inside the list.