1. What exactly is []?

Ans) This is termed as 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.)

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]

Append always add item in the end of list

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

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

It will remove the first occurrence item from the list.

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

Ans) + For concatenation and \* for replication

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

Ans) Append only add an item at the end of the list and insert can add anywhere in the list.

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

Ans) pop and remove()

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

Ans) indexing is similar in both, we can use slicing in it, can be used in len() function in it, both can be used in loop, concatenate function and replicate function can be used in both.

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

Ans) List are mutable and Tuples are Immutable, calues can not be change d in tupples and can be changed in list, list are represented by [] and tuples are represented by ().

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) tuple() and list() functions can be used to typecast the form.

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

Ans) They can contain list value reference.

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

Ans) The copy.copy() function will do a shallow copy of a list, whereas the copy.deepcopy() function will do a deep copy of a list .Only copy.deepcopy() will duplicate lists inside the list.