1. What exactly is []?

ANS – Type List brackets

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.)

Let's pretend the spam includes the list ['a', 'b', 'c', 'd'] for the next three queries.

ANS – spam[2] = ‘hello’

3. What is the value of spam[int(int('3' \* 2) / 11)]? ANS - 8

4. What is the value of spam[-1]? ANS - 10

5. What is the value of spam[:2]? ANS – [2, 4]

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, 99]

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

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

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

ANS – operators are + and \*

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

ANS – append() will add values to the end of the list whereas insert() will add values to 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 – They have some sequence.

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

ANS – Tuples are immutable which means they cannot be changed or added with some values and on the other hand lists are mutable meaning they can be changed or added up with extra values.

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(list[]) and list(tuple())

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

ANS – They contains references to the list values.

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 be a deep copy of a list.