1. What exactly is []? : **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]**

9. What are the list concatenation and list replication operators? **List concatenation : +, List replication: \***

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

**Append adds element to the end of list and inserts adds to the specific location**

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

**.remove and .pop**

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

**Both are ordered collection, can access elements from index concatenation thing is same with the help of +**

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

**List is mutable, tuple is immutable, list can be changes, tuples cannot**

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

**tuple(42)**

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

**List to tuple: tuple(list\_value), tuple to list: list(tuple\_value)**

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

**Reference of variable**

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

**Deep copy generates new memory for variable. Any change made in new object will not reflect in original. In .copy original object will be affected.**