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,99]**

9. What are the list concatenation and list replication operators? **+ for concatenation and \* for replication**

10. What is difference between the list methods append() and insert()? **Using insert an element can be added at any index while in append element can be added at the end.**

11. What are the two methods for removing items from a list? **Pop, del, remove**

12. Describe how list values and string values are identical. **In both list and string various elements can be access using its index value. Both started with 0th index.**

13. What's the difference between tuples and lists**? Lists are mutable while tuples are immutable. List encloses with [] while tuple uses ().**

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

15. How do you get a list value's tuple form? How do you get a tuple value's list form? **To get a list value’s tuple form we have to use type casting: tuple(L) where L is list**

**And To get a tuple value’s list form we have to use type casting: list(L) where L is tuple**

16. Variables that "contain" list values are not necessarily lists themselves. Instead, what do they contain? **Variable contain reference to list value. It not contain actual list value.**

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

Copy create reference to original object while deep copy create new object it means if we will change original object, in case of copy it will change created object while in case of deep copy it will not affect.