1. What exactly is []?

**Ans :**

**This is the 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]**

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

**Ans :**

**[3.14,11,’cat’,True]**

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

**Ans :**

**For list concatenation + and for list replication \***

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

**Ans :**

**Append function add new element at the end and insert function add given element at a respective position**

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

**Ans :**

**Delete statement and remove function**

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

**Ans :**

**Both lists and strings can be passed to len(), have indexes and slices, be used in for loops, be concatenated or replicated, and be used with the in and not in operators.**

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

**Ans :**

**Tuples are not mutable but list is mutable**

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 :**

**The tuple() and list() functions, respectively**

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

**Ans :**

**They contain reference to 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, while the copy.deepcopy() function will do a deep copy of a list. copy.deepcopy() will duplicate any lists inside the list.**