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

A. It is called to be as empty list or list value, which is a list value that contains no items.

**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.)**

**A.** 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)]?**

A. ‘d’ (‘3’ \* 2 is the string ‘33’, which is passed to int() before being divided by 11 . This evaluates to 3. Expressions can be used wherever values used)

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

**A.** ‘d’

**5. What is the value of spam[:2]?**

**A.** [‘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')?**

**A.** 1

**7. How does bacon.append(99) change the look of the list value in bacon?**

**A**. [3.14, 'cat,' 11, 'cat,' True,99]

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

**A.** [3.14, 11, 'cat,' True,99]

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

**A.**The operator used for list concatenation is ‘+’ and replication is ‘\*’

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

**A.** append() will adds the values to the end of list while insert() will adds anywhere in list.

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

**A.** del statement and remove() are two methods used to remove from list

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

**A.** Both list and string can be passed through len() , have indexes and slices used in for loops and can be concatenated or replicated , and be used with in and not in operators.

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

**A.** Lists are mutable , they can have values added , removed or changed . Tuples are immutable they cannot be changed at all. Tuples used in () while list used in []

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

**A.** (42,) [comma is mandatory]

**15. How do you get a list value's tuple form? How do you get a tuple v’lue's list form?**

**A.** using typecasting i.e list() and tuple()

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

**A.** They contain reference to list values

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

**A.** copy.copy() will allow shallow copy of list , while copy.deepcopy() will do deep copy of list . copy.deepcopy can be do duplicate values in the list