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

It is an empty list. Used to store elements. List are mutable that is values can be changed once inserted.

**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, 4, 6, 8, 10]

spam[2] = 'Hello'

print(spam)

**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  
because ‘3’ \* 2 give output 33 and converting it into integer and then dividing it with 11 and gives output **3.** And at spam[3] is d

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

It will print the last element that is d

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

It will print 2 values of the list

**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')?**

It will print the index value of cat that is 1. At 1

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

It will add element 99 in the list bacon.

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

It will remove the element cat from the bacon list and if 2 elements are there then fisrt element will be removed.

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

List concatenation ( + ) means add two or more lists.

List replication operator or \* it will multiply elements of the list

Example:

s11 = [1,2,3,4,5]

s55 = s11\*2

print(s55)

Output: - [1, 2, 3, 4, 5, 1, 2, 3, 4, 5]

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

Appened will add elements to the last of the list and insert will add elements to the specific place or position

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

Two ways to remove items from the list arez:

Spam.pop(index=1)

Spam.remove(‘value’)

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

List values are in single quotes and string values are also in quotes

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

Values in tuples can not be changed once created. But in list it can be changed.

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

By adding comma at last  
a = (42,)

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

Just adding list function. Ex:

Spam=(1,2,3,4,5)

Spam1=list(Spam)

And list to tuple simply adding tuple function ex:

A = [1,2,3,4,5]

B = tuple(A)

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

Refernces

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

Copy.copy() depends on the original file but in deep copy it dosen’t.