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

Ans: It is square brackets while creating the list we use it.

**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, 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)]?**

Ans: **i**nt('3' \* 2) /11=3

[int(3)]=3

spam[3]=’d’

Ans: 'd'

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

Ans: d

**5. What is the value of spam[0:2]?**

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: 3

**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, 'cat,' 11, True, 99]

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

Ans: concatenation of list is done by ”+” and replication operation with “ \* ”

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

Ans: append() will add the given value at the end of the list whereas the insert() will inserts an element to the list at the specified index.

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

Ans: remove() & pop()

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

Ans. both can be written in sequence

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

Ans: tuples are immutable and lists are mutable

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

Ans: fruit = (42)

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

Ans: Assuming a =() and b=[]

i) tuple(b)

ii) list(a)

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

Ans. list can contain string, int ,float, bool, tuple

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

Ans: copy.copy() will return a shallow copy and

Copy.copy will return a deep copy of an object