1. What exactly is []?

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'

spam.insert(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?

Concatenation 🡪 +

Replication 🡪 \*

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

Append() 🡪 appends any value at the last of list

Insert() 🡪 inserts at a specified index location

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

Remove()

Pop()

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

A string is a sequence of characters. A list a sequence of values which can be characters, integers or even another list

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

List is mutable , tuples are not.

You can add/remove or perform any list operations on list elements/list but tuple doesn’t allow it.

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

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

To convert list to tuple add them in ()

To convert tuple to list add them in []

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

References to list values

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

copy() create reference to original object. If you change copied object - you change the original object. . deepcopy() creates new object and does real copying of original object to new one