1. What exactly is []?

Ans : [] is square bracket used to create list of values. It creates a list which is mutable.

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.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)]?

Ans: ‘d’

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

Ans: ‘d’

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

Ans: ‘c’

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: removes first occurrence of ‘cat’ - [3.14, 11, 'cat', True,99]

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

Ans: Concatenation mean join two or more list operator is ‘+’

Replication means repeating list. Operator is ‘\*’

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

Ans: append() insert an element at the end of the list while insert() insert an element at particular position/index in the list.

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

Ans: remove(), pop(),clear(),del()

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

And: list values and string values both are sequences.

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

Lists are mutable and tuples are immutable.

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

T=(42,) – comma(‘,’)is mandatory for trailing

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

List(t)

Tuple(t)

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

They will contain reference of list also..

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.