1. What exactly is []?

Sol:- An empty 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.)

sol:-

spam = [2, 4, 6, 8, 10]

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)]? - > ‘d’

4. What is the value of spam[-1]? - > ‘d’

5. What is the value of spam[:2]? - > ‘a’,’b’

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?

Sol:- It will add 99 to the end of list

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

Sol:- It will remove first occurring of value ‘cat’ in list

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

Sol:- list concatenation -> +

list replication -> \*

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

Sol:- Append will add element in the end of list while insert will help to add an element where ever we want in the list. List will take 2 parameters 1)value 2)place to insert

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

Sol:- remove(),pop()

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

Sol:-Can access the individual items using indexing

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

Sol:-tuples are immutable and lists are mutable i.e., can be changed

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

Sol:-(42,)

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

Sol:-

list to tuple

bacon = [3.14, 'cat', 11, 'cat', True]

t1 = tuple(bacon)

tuple to list

bacon = (3.14, 'cat', 11, 'cat', True)

l1=list(t1)

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

Sol:- tuples,strings,dictionary

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

Sol:- A deep copy is a process where we create a new object and add copy elements recursively

A copy is copy of object which refers to original elements.