1. What exactly is []?

Ans:- it represents the 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.)

Ans:- import spam

spam.Assume.insert(3,’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

spam[int(int('3' \* 2) / 11)] it returns 3

--------------------------------------------------------------------------------------------------

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

Ans:- d

--------------------------------------------------------------------------------------------------

5. What is the value of spam[: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:- 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:- [3.14, 11, 'cat,' True,99]

--------------------------------------------------------------------------------------------------

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

Ans:- + is concatenation operator and \* is replication opearator

--------------------------------------------------------------------------------------------------

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

Ans:- append() add value in last index and insert() add value where user wants

--------------------------------------------------------------------------------------------------

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

Ans:- pop () by using index value and remove() by using value

--------------------------------------------------------------------------------------------------

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

Ans:-they contains ordered collection of character except that the element of list can have any type

--------------------------------------------------------------------------------------------------

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

Ans:- list is mutable datatype and tuple is immutable

--------------------------------------------------------------------------------------------------

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

Ans:- 42,

--------------------------------------------------------------------------------------------------

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

Ans:- by type casting e.g if a is list then a = tuple(a) and converting again in list a = list(a)

--------------------------------------------------------------------------------------------------

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

Ans:- values or items

--------------------------------------------------------------------------------------------------

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

Ans:- copy .copy() create object and insert refrence of the object while copy .deepcopy() create new object and add all vales by recursively

--------------------------------------------------------------------------------------------------