- 1) What is list? How will you reverse a list?
 - ➤ A list is a data structure in python that is a mutable, or changeable, ordered
 - > sequence of element.
 - Each elements or value that is inside of a list is called an item.
 - > Lists are defined by having values between square bracket's [].
 - Using the slicing technique we can reverse a list
 - Using the reversed() and reverse() built in function.
- 2) How will you remove last object from list?
 - One way is to use the pop() methods.
 - This methods removes the last element of a list by default, or you can specify
 - > the index of the element you want to remove.
- 3) Suppose list1 is [2, 33, 222, 14, and 25], what is list1 [-1]
 - ➤ In list [-1] is 25
- 4) Differentiate between append () and extend () methods?
 - ➤ Append() adds a single element to the end of the list while extend () can add
 - multiple individual elements to the end of the list.
- 5) How will you compare two lists?

- ➤ The cmp() function is a built in method in python used to compare the elements of two lists.
- ➤ The function is also used to compare two elements and return a value based on the arguments passed.

6) How will you create a dictionary using tuples in python?

- There are different ways to create a dictionary using tuples in python.
- ➤ One of the simplest ways is to use the dict() funcation, which takes a list of
- tuple as an argument and returns a dictionary where the first element of
- > each tuple is the key and the second element is the value.

Example:-

```
List_of_tuple[("name","alice"),("age",25)]

Dictionary=dict(list_of_tuple)
```

7) How Do You Check The Presence Of A Key In A Dictionary?

- ➤ There are seral ways to check the presence of a key in a dictionary in python.
- Using the in operator you can use the in operator check if a key in a dictionary.

```
Example:-

If key in dic:

Return true

else:

return false
```

8) How Do You Traverse Through A Dictionary Object In Python?

- ➤ A dictionary object in python is a collection of key and value pair that can be accessed by using the keys as indexes.
- ➤ There are different ways to traverse through a dictionary object in python, depending on what you want to do with the keys and values.
- ➤ If you want to itrate over both the keys and values of a dictionary, you can use the .items() method, which return
- > A view object that contain the key-values pairs as tuple.

9) Why Do You Use the Zip () Method in Python?

- The zip () method in python is used to combine two or more literables, such as list,tuple,string,dictionary ,etc
- > Zip () method also useful for perfoming operation on multiple iterables in looping, sorting, mapping, filtering, etc.

10) How Many Basic Types Of Functions Are Available In Python?

- > There are two types of function in python programming
 - Built-in function
 - User-defined function

Built-in function:

There are the function that are already written and defined.

Example:-

print(), id ()

11) How can you pick a random item from a list or tuple?

- ➤ One way to pick a random item from a list or tuple in python is to use the random.choice() funcation from the random module.
- ➤ This funcation takes a sequence as an argument and return a randomly selected elements from it .

12) How can you pick a random item from a range?

- ➤ There are different ways to pick a random item from a range in python.
 - Using random.randrange() function
 - Using random.randint() function
 - Using random.random() function
 - Using random.choice() function

13) How can you get a random number in python?

Python defines a set of funcation that are used to generate or manipulate random number through the random module. Example:-

Import random
Num=random.random()
Print(Num)

- 14) How will you set the starting value in generating random numbers?
 - > Set the starting value in generating random number in python, you can use the seed() method of the random module.

➤ This method takes an optional argument that is an integer or a float , and sets the initial state of the random number generator.

- 15) How will you randomizes the items of a list in place?
 - ➤ The random module in the python standard library provides a shuffle function that return a sequence with its elements randomly placed.