1. How do we write a function in python?

We can create a Python function in the following manner.

Step-1: to begin the function, start writing with the keyword def and then mention the function name.

Step-2: We can now pass the arguments and enclose them using the parentheses. A colon, in the end, marks the end of the function header.

Step-3: After pressing an enter, we can add the desired Python statements for execution.

2.What is function call or a callable object in python?

A function in Python gets treated as a callable object. It can allow some arguments and return a value or multiple values in the form of a tuple. Apart from the function, Python has other constructs, such as classes or the class instances which fits in the same category.

3.How many basic types of functions are available in python?

Python gives us two basic types of functions.

1. Built-in, and

2. User-defined.

The built-in functions happen to be part of the Python language. Some of these are print (), dir. (), Len (), and abs () etc.

4.What is python for Loop?

A for loop in Python requires at least two variables to work. The first is the inerrable object such as a list, tuple or a string. And second is the variable to store the successive values from the sequence in the loop

5.Python for loop Syntax?

In Python, you can use the “for” loop in the following manner.

for tier in sequence:

statements(tier)

The “tier” represents the iterating variable. It gets assigned with the successive values from the input sequence.

The “sequence” may refer to any of the following Python objects such as a list, a tuple or a string.

6.Which data types are supported in Python?

Python has five standard data types:

Numbers, Strings, Lists, Tuples and Dictionaries

7.What is the purpose of relational operators in python?

The purpose of relational operators in python is compare values.

8.What are the assignment operators in python?

The purpose of assignment operators in python can help in combing all he Arithmetic operators with the assignment symbol.

9.How are identity operators different than the membership operators?

Unlike membership operators, the IO compare the values to find out if they have the same value or not.

10.Why do we need membership operators?

Need it for the purpose to confirm if the value member in another or not.

11.Explain the difference between Python arrays and lists.

In Python, both arrays and lists are used to store data. However,

1. Arrays can only contain elements of the same data types, meaning the data types of an array should be homogeneous.
2. Lists can contain elements of different data types, which means that the data types of lists can be heterogeneous. Lists consume much more memory than arrays.

12.Which of these is not a core data type?

1. List
2. Dictionary
3. Tuple
4. Class

Ans: d)

13.Which of the following function convert a sting to a float in python?

1. Int (x [, base])
2. Long (x [, base])
3. Float
4. Str(x)

Ans: c)

14.How do u change the data type of a list?

1. To change a list into a tuple, we use the tuple () function
2. To change it into a set, we use the set () function
3. To change it into a dictionary, we use the dict () function
4. To change it into a string, we use the. join () method

Ans: a)

15.Can we write if/else into one line in python?

1. Yes
2. No
3. If/else is not used in python
4. None of the above

Ans: a)

16.Which of the following is False regarding loops in Python?

a) Loops are used to perform certain tasks repeatedly.  
b) While loop is used when multiple statements are to be executed repeatedly until the given condition becomes False  
c) While loop is used when multiple statements are to be executed repeatedly until the given condition becomes True.  
d) for loop can be used to iterate through the elements of lists.

Ans: c)

17.What data type is the object below?

l = [1,23,’hello’,1]

1. List
2. Dictionary
3. Tuple
4. Array

Ans: A)

18.Which of the following is True regarding loops in python?

1. If a>=2:
2. If(a>=2)
3. If(a=>2)
4. If a>=2

Ans: a)

19.Which of the following is True regarding loops in Python?

1. Loops should be ended with keyword "end".
2. No loop can be used to iterate through the elements of strings.
3. Keyword "break" can be used to bring control out of the current loop.
4. Keyword "continue" is used to continue with the remaining statements inside the loop.

Ans: c)

20.Which of the following is not used as loop in python?

1. For loop
2. While loop
3. Do wile loop
4. None of the above

Ans: c)