**Assessment 1 Total Marks 100**

**Time: 30 mins**

**Data Types**

1. Which of the following are immutable?

* String
* Tuple
* Dictionary
* List

Ans: Tuple, Srting

2. Which of the following are True ?

* Tuples are immutable
* Dict keys are immutable
* Set keys are immutable
* Dict keys are unique

Ans: Tuples are Immutable,Dict keys are unique

3. Can we add an element into a list present inside a tuple?

* Yes
* No

Ans:yes

4. Dictionaries and sets can be sliced

* Yes
* No

Ans: No

5. What will be the output of the following code?

a = 1,2,3,4

print('{}'.format(len(a)),end='\t')

print(bool(0))

* + 4 True
  + 4 1
  + 4 False
  + None of these

Ans: 4 False

6. Can we convert a list to a tuple and a tuple to a list

* Yes
* No

Ans: Yes

Operators

7. type(“rahul”) == type(1) is

* True
* False

Ans:False

8. Guess the output “Rahul”[::-1]

* ‘Rahul’
* ‘rahul’
* ‘luhar’
* ‘l’
* None

Ans: ‘luhar’

9. “away”.\_\_getitem\_\_(0) will return

* ‘a’
* IndexError
* ‘aw'
* SyntaxError

Ans: ‘a’

10. my\_list=[1,2,3,4,5]

for item in my\_list:

print(item)

* 1

2

3

4

5

* 1 2 3 4 5
* Unsupported type operand(s)
* SyntaxError

Ans: 1

2

3

4

5

11. Write a function that takes takes two sequence and returns the sum of both the sequence ?

def adder(seq1,seq2):

print(“enter sequence1: “)

print(“enter sequence2: “)

l=[]  
 for i in range(0,len(seq1)):

l.append(seq1[i]+seq2[i])  
 return l

adder([1,2,3],[2,3,4])-> function calling

(20 marks)

12. Create a lambda function that takes a string and returns True if the string contains vowels , otherwise return false (20 marks)

13. What is the output of the following code. Illustrate using a Flowchart.

l = ( [1,2,3] , [4,5,6] ) Marks 30

for items in l:

for item in items:

print(item\*item,end='\t')

14. Write a generic function that can take any number positional and keyword argument(s). Try to print their types?

def my\_var1(\*args,\*\*kwgs):

print(“positional arguments are: “)

print(“keyword arguments are: “ )

my\_var1()-> function calling

type(args),type(kwgs)

15. me,you,\*important = “python”,’javascript”,100,200,300,”Somani”

What will be the value of Marks 20

* Me “python”
* You ’javascript”
* Important 100,200,300,”Somani”
* Important[3] “Somani”
* Important[3][-1] ‘i’