**Assessment 1 Total Marks 100**

**Time: 30 mins**

**Data Types**

1. Which of the following are immutable?(ANS: Tuple,string)

* String
* Tuple
* Dictionary
* List

2. Which of the following are True ?(ans: Tuples ,set,are immutable)

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

3. Can we add an element into a list present inside a tuple? Ans:no

* Yes
* No

4. Dictionaries and sets can be sliced ans:no

* Yes
* No

5. What will be the output of the following code?ans:4 false

a = 1,2,3,4

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

print(bool(0))

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

6. Can we convert a list to a tuple and a tuple to a list ans:yes

* Yes
* No

Operators

7. type(“rahul”) == type(1) is ans:false

* True
* False

8. Guess the output “Rahul”[::-1] ans:’luhar’

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

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

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

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

for item in my\_list: 2

print(item) 3

4

* 1 5

2

3

4

5

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

11. Write a function that takes takes two sequence and returns the sum of both the sequence ? (20 marks)

def my\_func(list1,list2):

""" Try to return the pairs first, """

l=[]

pos=0

while pos<len(l1) and pos <len(l2):

l.append(list1[pos]+list2[pos])

pos+=1

return l

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

my\_name=lambda seq:seq.vowels()

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: true

for item in items: F

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

1\*1=1,2\*2=4,3\*3=9,4\*4=16,5\*5=25,6\*6=36

1,4,9,25,36

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

def my\_func(\*args,\*\*kwargs):

print(args,kwargs)

my\_func()

type(my\_func)

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

What will be the value of Marks 20

* Me
* You
* Important
* Important[3]
* Important[3][-1]