**Assessment 1 Total Marks 100**

**Time: 30 mins**

**Data Types**

1. Which of the following are immutable?( ans: Tuple)

* String
* Tuple
* Dictionary
* List

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

* 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

1. my\_list=[1,2,3,4,5] (ans: syntax error)

for item in my\_list:

print(item)

* 1

2

3

4

5

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

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

Ans: (20 marks)

def adder(seq1,seq2):

result=seq1+seq2

return result

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

Ans:

Vowels=(‘a’ or ‘e’ or ‘i’ or ‘o’ or ‘u’)

S=lambda name: print(‘True’) if name.\_\_contains\_\_( vowels) else print(‘False’)

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

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

l= 1,2,3,4,5,6

for i in l I.e for enterd in l

For 1 in l 1\*1

2 in l 2\*2

3in l 3\*3

4 in l 4\*4

5 in l 5\*5

6in l 6\*6

Gives 1 4 9 16 25 36

Gives 1 4 9 16 25 36

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?

Ans:

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

print(type(args))

print(type(kwargs))

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

What will be the value of Marks 20

* Me
* You
* Important - ’python’
* Important[3]- ’h’
* Important[3][-1]- ’h’