**Assessment 1 Total Marks 100**

**Time: 30 mins**

**Data Types**

1. Which of the following are immutable?

* String
* Tuple
* Dictionary
* List

2. Which of the following are True ?

* 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?

* Yes
* No

4. Dictionaries and sets can be sliced

* Yes
* 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

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

* Yes
* No

Operators

7. type(“rahul”) == type(1) is

* True
* False

8. Guess the output “Rahul”[::-1]

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

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

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

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

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

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

What will be the value of Marks 20

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

ANSWERS

1.String and Tuples are immutable

2.Tuples are immutable

3.No

4.Yes

5. 4 False

6.Yes

7.false

8.’luhar’

9.a

10. 1

2

3

4

5

11. def adder(a,b):

"""

adder takes into two integers and

return sum of the two integers

"""

result = a+b

return result

12.lambda string:True if string.\_\_contains\_\_(‘aeiou’) else False

13. 1 4 9 16 25 36

14.def func(\*args,\*\*kwargs):

print(type(args))

print(type(kwargs))

func(‘Saida’,’Shaik’,age=23,country=’India’)

15.me= python;you=javascript;important=100,200,300,Somani;important[3]=Somani;

Important[3][-1]=type error