**Assessment 1 Total Marks 100**

**Time: 30 mins**

**Data Types**

1. Which of the following are immutable? Ans🡪(string,tuple)

* String
* Tuple
* Dictionary
* List

2. Which of the following are True ? Ans🡪options (1,4)

* 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🡪(yes)

* Yes
* No

4. Dictionaries and sets can be sliced Ans🡪(No)

* Yes
* No

5. What will be the output of the following code? Ans🡪(None of the above)

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(None)

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

9. “away”.\_\_getitem\_\_(0) will return Ans🡪(Syntax Error)

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

10. my\_list=[1,2,3,4,5] Ans🡪(option-1)

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)

Ans:- def seq(a,b):

sum=[

a[0] + b[0],

a[1] + b[1]

]

return sum

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

Ans🡪 s=lambda a:True if a.isvowel() else False

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')

13Ans🡪 Output : 1 4 9 16 25 36

Flowchart

Start

Assign list elements to l=1,2,3,4,5,6

For items in list l

For items in items

Item\*item(i.e. 1\*1,2\*2,3\*3,4\*4,5\*5,6\*6)

Print(item\*item)

Stop

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

Ans🡪 def func(\*args,\*\*kwargs):

print( ‘positional arguments = {}’.format(args))

print( ‘keyword only arguments = {}’.format(kwargs))

print(‘type = {}’.format(type(args))

print(‘type = {}’.format(type(kwargs))

func(a=10,b=20)

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 )