**Assessment 1 Total Marks 100**

**Time: 30 mins**

**Data Types S CHANDRA SEKHAR**

1. Which of the following are immutable?

* String
* Tuple
* Dictionary
* List

Ans : Tuple

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 uniqe

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: None

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

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

Ans : Syntax Error

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 : Syntax Error

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

Ans :

def adder(l1,l2):

l1=[1,2,3,4]

l2=[5,6,7,8]

l=([l1[0]+l2[0],l1[1]+l2[1],l1[2]+l2[2],l1[3]+l2[3])

l=sum(l1,l2)

return l

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

Ans : def vowel\_check(string):

Vowel=[‘a’,’e’,’I’,’o’,u]

If (vowel\_check in vowel):

return True

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')

Ans : 1 4 9 16 25 36

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

Ans :

def my\_func(\*args):

def my\_func(\*\*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
* Important[3]
* Important[3][-1]

Ans : Important[3]