**Assessment 1 Total Marks 100**

**Time: 30 mins**

**Data Types**

1. Which of the following are immutable?

* String
* Tuple
* Dictionary
* List

ANS:

STRING AND 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

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:

yes

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:

‘luhar’

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

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

ANS:

‘a’

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:

1

2

3

4

5

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

Input :

a=[1,2,3,4,5,6]

b=[1,2,3,4,5,6]

Print(sum(a)+sum(b))

Output: 42

(20 marks)

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

(20 marks)

A=lambda l=list(): print(“true”) if

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')

output:

1. 4 9 16 25 36

For suppose

Items in list are 2

So items=2

Item in items are 1,2,3,4,5,6

At first for loop item=1

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

Input:

def genericfunction(\*args,\*\*kyargs):

print(args)

print(type(args))

print(kyargs)

print(type(kyargs))

output:

genericfunction(1,2,3,4,5,6,’tirumala rao’,name=”TIRUMALA RAO KONATHAM”

proffesition=”Trainee”)

-🡪<class tuple>

-🡪(1,2,3,4,5,6,’tirumala rao’)

-🡪{‘name’ : “TIRUMALA RAO KONATHAM” , ’proffesition’ : “Trainee”}

-🡪<class dict>

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:

-🡪 python

-🡪 javascript

-🡪 [100,200,300,’somani’]

-🡪 ’somani’

🡪 ’i’