**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

* 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

10. my\_list=[1,2,3,4,5] Ans:1

for item in my\_list: 2

print(item) 3

4

* 1 5

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 add(a , b)

result = a + b

return result

add(2,3)

o/p: 5

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

Ans: def lambda(chr):

‘’’ str: a single letter of any case

Returns :true if str is a vowel an false otherwise

’’’

If chr ==’a’ or ‘e’ or ‘i ‘or ‘o’ or ‘u’:

Return true

Else:

Return 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\_fun(\*args,\*\*kwargs):

print('hi ,welcome to {}'.format(my\_fun.\_\_name\_\_))

print('positional arguments = {}'.format(args))

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

my\_fun(10)

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

What will be the value of Marks 20

* Me
* You ANS: important
* Important
* Important[3]
* Important[3][-1]