

Internal Assessment Question Paper - 1

Ramaiah Institute of Technology (Autonomous Institute, Affiliated to VTU) Department of CSE

Programme: B.E

Course: Introduction to Python Programming

CIE: 1 Max Marks: 30 Sem:1 Time: 1Hr Term: 31.10.2022-10.03.2023 Course Code: PLC142 Section:1-6 Date:23/01/23 Portions for Test: L1 - L11

Instructions to Candidates:

1. Question No. 1 is Mandatory

Answer any one question from Question No. 2 or 3. Each Question carries 15M.

Mobiles, smart watches or any electronic gadgets are strictly banned.

SI#	Question	Marks	Bloom 's Level	CO Mapping
la	 i. For num = [10,30,20,40], what does the following for loop output? for k in num: print(k) 	5	IJ	CO2
	(a) 10 20 30 40 (b) 10 30 20 40(c) 10 30 20			
	ii. For num = [10, 30, 20, 40], what does the following for loop output? for k in range(1, 4): print(num[k])			
	(a) 10 30 20 40 (b) 30 20 40 (c) 10 30 20 iii. For fruit = 'strawberry', what does the following for loop output? for k in range(0, len(fruit), 2): print(fruit[k], end=")			
	(a) srwer(b) tabry iv. For num= [12, 4, 11, 23, 18, 41, 27], what is the value of k when the while loop terminates? k = 0 while k < len(num) and num[k] ! = 18: k = k + 1 (a) 3 (b) 4 (c) 5			
	v. For fruit = [25,35,45,55], use a list operation to change the list to [25,35,55]			
b.	List out the features of Python Programming language.	5	Ll	COI
С	What are modules? Explain math module with example.	5	L2	CO3

	2 OR 3			
2a	What are dictionaries in python? Write a python program that makes a dictionary whose keys are the words 'one', 'two', 'three' and 'four' and whose corresponding values are the numerical equivalents, 1, 2, 3 and 4(ints not strings)	5	L2	CO2
b	What is Tuple in python? Explain tuple packing and unpacking with an example code snippet.	5	L2	CO2
C	What are membership and identity Operators in python? Explain both Operators each with relevant examples.	5	L2	COI
3a	 a) Give the exact results of each of the following division operations. (a) 7 / 4 (b) 7 // 4 b) What value does the following expression evaluate to? 2 + 9 * ((3 * 12) - 8) / 10 (a) 27 (b) 27.2 (c) 30.8 c) Write a python function to implement the Collatz 3n+ 1 sequence. 	5	L2	COI
b	What is debugging? Give an example for each type of error that occur in programs.	5	L1	COI
с	What is a list in python? Explain each of the following w.r.t lists with an appropriate example: Slicing built-in list methods	5	1.2	CO2

Course Outcomes meant to be assessed by the IA Test1: CO1:Demonstrate proficiency in handling loops and creation of functions.

CO2:Identify the methods to create and manipulate lists, tuples and dictionaries.

CO3: Develop programs using modules and files.