RV COLLEGE OF ENGINEERING®

(An Autonomous Institution affiliated to VTU)

I Semester B. E. Examinations May-2023

Common to all programs

INTRODUCTION TO PYTHON PROGRAMMING (ELECTIVE)

Maximum Marks: 100 Time: 03 Hours

Instructions to candidates:

- 1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.
- Answer SIX full questions from Part B. In Part B question numbers 2 and 11 are compulsory. Answer any one full question from 3 and 4, 5 and 6, 7 and 8 & 9 and 10.

PART-A

		PART-A	
1	1,,1	What is the output of the following snippet?	
		Tuple=(10,20,30,40,50)	01
		Tuple[3] = 50	
	1.2	What will be the output of this code?	
		a = ['APPLE', 'BANANA']	
		for I in a:	01
		print(i.lower())	
	1.3	What will be the output of the following code snippet?	
		a = 100	
		b = 200	
		print (a, b)	1 1
		a,b=b,a	01
		print (a, b)	
	1.4	What is the output of the following code?	
		X = "555"	
		Y = X + str(9)	01
		print(Y)	
	1.5	Consider the following sequence	
		List = [10, 20.40.50, 60]	01
		Add on integer 30 after the value 40.	
	1.6	What is the output of the following statement?	01
	2	print("\a")	. 01
	1.7	weits the difference between the Conditional	
	1.8	What is the output of the following code?	
	1.0	for i in range (1, 10, 2):	01
		print(i)	01
	1.0	print(i) In what sense pop() function is different from clear() function in list.	
	1.9	The state of the long wing code.	
	1.10	Write the output of the following Fruits = { 'grapes' : 'green' , 'apple': 'red' }	01
		print(Fruits.keys())	
		print(Frates. Rejs V)	

PART-B

		PART-B in the restaristics of the Python Language.	07
2	a b	Summarize the typical characteristics of the Python Language. Illustrate the following concepts with an example: i) Getting the input from the terminal ii) Type casting	07
		iii) Type eda 5 iii) Creating the Strings	

3	a	Write Python Program to reverse a number and also find the Sum of digits in the reversed number. Prompt the user for input.	07
	b	Discuss Identity and Membership functions in python with an example. OR	07
		OR .	
4	а	Write a menu driven program to perform Arithmetic operations using Python.	07
	b	Discuss the usage of Bitwise Operators.	07
5	a b	Illustrate Tuple operations. Consider a list <i>Example</i> = ['A', 'B', 'C', 'D', 'E'] and perform the following operations on the given list: i) sort()	07
		ii) extend iii) index() iv) copy()	07
		OR	07
6	a b	Illustrate the concept the Dictionaries in python with an example. Consider a string str = 'RV College of Engineering' and perform the following operations on the given string: i) capitalize() ii) count	07
		iii) endswith() iv) find()	07
		iv) find()	07
7	а	Discuss the concept of Global variable and Arbitrary Keyword Arguments in Python.	07
	b	Illustrate Exception handling in Python with an example.	07
		OR	
8	а	With the help of Python functions, write a Python program to print	
		the Multiplication table. Note: Accept the input from the Terminal	07
	b	Write a program to do the following tasks:	07
		i) Creating a file	
		ii) Writing into the file	
		iii) Reading from the file.	07
9	a	Illustrate Default and Parameterized Constructor.	07
	b	Discuss the concept of Polymorphism with Inheritance.	07
		and the second of the second o	07
		OR	
10	a	Illustrate the relevance of Access Modifiers in Python.	07
- 5	b	Discuss Static and Class Methods.	07
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11	а	Consider a sequence of numbers with some missing values. Write a python program for inserting the missing values, and remove some of the values from the program of the values from the program of the values from the program of the values of the program of the values from the program of the values of the program of the pr	
11	а	Consider a sequence of numbers with some missing values. Write a python program for inserting the missing values, and remove some of the values from the sequence. Also, add a few more values to the existing sequence.	