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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)

Time: 03 Hours
Instructions to candidates:

Maximum Marks: 100

- 1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.
- 2. 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

		FARI-A	
1	1.1	What is the output of the following snippet?	
		Tuple (10,20,30,40,50)	
		Tuple[3] = 50	01
	1.2	What will be the output of this code?	
		a = [APPLE', BANANA']	
		for I in a:	
		print(i.lower())	01
	1.3	What will be the output of the following code snippet?	
		a = 100	
		b = 200	
		print(a,b)	
		a, b = b, a	
		print (a, b)	01
	1.4	What is the output of the following code?	
		X = "555"	
		Y = X + str(9)	
		print(Y)	01
	1.5	Consider the following sequence	
		List = [10, 20, 40, 50, 60]	
		Add an integer 30 after the value 20.	01
	1.6	What is the output of the following statement?	
		$print("\a")$	01
	1.7	Write the difference between the Conditional and Control Statements.	01
	1.8	What is the output of the following code?	
		for i in range (1, 10, 2):	
		print(i)	01
	1.9	In what sense pop() function is different from clear() function in list.	01
	1.10	Write the output of the following code?	
		Fruits = { 'grapes' : 'green', 'apple': 'red' }	0.1
		print(Fruits.keys())	01

PART-B

2	а	Summarize the typical characteristics of the Python Language.	07
	b	Illustrate the following concepts with an example:	
		i) Getting the input from the terminal	
		ii) Type casting	
		iii) Creating the Strings	07

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
	Ь	Discuss Identity and Membership functions in python with an example. OR	07
		O.K	
4	a	Write a menu driven program to perform Arithmetic operations using Python.	07
	b	Discuss the usage of Bitwise Operators.	07
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5	a b	Illustrate Tuple operations. Consider a list $Example = [A', B', C', D', E']$ and perform the following operations on the given list: i) sort()	07
		ii) extend	
		iii) index()	
		iv) copy()	07
		OR	
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
7	а	Discuss the concept of Global variable and Arbitrary Keyword	07
	b	Arguments in Python. Illustrate Exception handling in Python with an example.	07 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	0.7
	b	Write a program to do the following tasks: i) Creating a file	07
		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
		OR	
10	a	Illustrate the relevance of Access Modifiers in Python.	07
-	b	Discuss Static and Class Methods.	07
		= and older methods.	07
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.	10
	b	Create an Employee 'Employee' Database using dictionaries and perform the insert, search and display operations.	10