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Paper Code: BCAC403 Python Programming UPID: 400088

Time Allotted: 3 Hours Full Marks:70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

Answer <i>c</i>	any ten of the following :	[1 x 10 = 10]
(1)	What is the output when we execute list("hello")?	
(II)	In which language is Python written?	
(III)	What will be the output of the following Python code snippet?	
	bool('False') bool()	
(IV)	What will be the output of the following Python code snippet?	
	<pre>print('11'.isnumeric())</pre>	
(V)	is used to create an object.	
	What will be the output of the following Python code?	
	>>> a={i: i*i for i in range(6)} >>> a	
(VII)		The state of
	How to find the last element of list in Python? Assume 'bikes' is the n	name of list.
(VIII)	What will be the output of the following Python code?	
	>>> a=[14,52,7] >>>> b=a.copy()	
	>>> b is a	
(IX)	What will be the output of the following Python code?	
	class Demo: definit(self):	
	pass pass	
	def test(self):	
	print(name)	
	obj = Demo() obj.test()	
(X)	The expression 2**2**3 is evaluated as (2**2)**3. The statement is (True / False)	
	What will be the output of the following Python code snippet?	
	What will be the output of the following code.	
	Str="pyThOn"	
()/II)	print(Str.swapcase())	
(XII)	What is the output of the following python code? x = 27	
	y = 9	
	while x < 30 and y < 15:	
	x = x + 1	
	y = y + 1 print(x,y)	
	Group-B (Short Answer Type Question)	
	Answer <i>any three</i> of the following:	[5 x 3 = 15]

[5]

- If list1 = ['x', 'y', 'z'], list2 = ['x', 'y', 'z'] and list3 = [], what will be displayed when the following print statements are executed? Explain briefly why it is so displayed.
 - (i) print(list1 is list2)
 - (ii) print(not list3)

3.	What is Indentation in Python? What is Nested loop?	[5]
4.	What are the differences between list and tuples in Python?	[5]
5.	Write a python program to print fibonacci series of n number using recursion.	[5]
6.	What is a class? What is an object? Explain with example	[5]
	Group-C (Long Answer Type Question)	
	Answer <i>any three</i> of the following:	$[15 \times 3 = 45]$
7.	(a) How do you create a class in Python?	[5]
	(b) What is init method in python?	[5]
	(c) How do you access parent members in the child class?	[5]
8.	(a) How to take user input in python. Write a python program to describe and what will be the type of that input value.	[4]
	(b) Define String. How String slicing in Python works.	[6]
	(c) How To Import Modules in Python 3	[5]
9.	(a) Which of the following are legal python variable names? If a name is not legal, state the reason. cse1, 1cse, his_name, her-name, pass	[5]
	(b) With example explain Identity operator and Membership operator.	[5]
	(c) Write a python program to find the maximum, minimum and average of three numbers without using library functions.	[5]
10.	(a) Write a python program to implement a class Point with x, y as instance variables. Use of special functionstr to print object andadd ,sub magic methods to perform addition and subtraction between two objects.	[8]
	(b) With example explain the concept of multiple inheritance in Python.	[7]
11.	(a) What is if-elif-else?	[5]
	(b) Why do we use loop?	[3]
	(c) Write down about the Logical operators of the Python Programming Language?	[7]

*** END OF PAPER ***