USC \$102 - PYTHON Q.P. Code: 756002

			(2½ Hours)		[Total Marks : 75
N.B.: (1) (2) (3) (4)	Fig Illu	the questions are oures to the right in strations, in-depth at the cing of sub-question	dicate full ma inswers and di	agrar	ns will be appreciated.
1 Attomas	4 A 11 /T	Each of E Montra			
-	-	Each of 5 Marks) choice questions:			15
•	-	Which of these in n	ot a core data	tuna	2
'	(i)	List	or a core data	(ii)	Dictionary (
	(iii)	Typle		(iv)	Class
	()	2) 120		(11)	Class
((2)	Python is	langu	age.	70
·	(i)	Compiled		(ii)	Procedure
	(iii)	Interpreted	1.1	(iv):	Non-Interactive
	` '	•	17	(\lambda	
((3) T	o add a new eleme	nt to a list we	ોse v	which command?
	(i)	list1.add (5)		,	list1.append (5)
	(iii)	list1.addLast (5)	,%		list1.addEnd (5)
			~ P		
((4) V	Which of the follow	ngcis va python	typl	e ?
	(i)	[1, 2, 3]	to		(1, 2, 3)
	(iii)	{1, 2, 3}		(iv)	{ }
	1	2/6,			
((5) V	Vhat gets print	ed ? Assu	ming	g python version 3.4.3
	(i)	<tvpe dint'=""></tvpe>		(ii)	<type 'number'=""></type>
C	(iii)	<tvre 'tunle'=""></tvre>	i	(iv)	<type 'float'=""></type>
0	(111)	√Q.		(11)	type noat-
10	~	6			
1	30				
Ö	4				
₩,	9	rint (type (1/2)). <type dint'=""> <type 'tuple'=""></type></type>			! TURN OVER

(b)	Fill	in	the	blanks	
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(1) What is the average value of the code that is executed below

>>> grade1 = 80

>>> grade2 = 90

>>> average = (grade1 + grade2) /2

(2) What is the output of the following _____

X = ['ab', 'cd']

for i in X:

i.upper()

print (X)

- (3) What data type is the object below L = [1, 23, 'hello', 1]
- (4) In order to store values in terms of key and value we use what core data type?
- (5) What is the output when following statement is executed >>> "a" + "bc"

(c) Short notes:

(1) What is comment in python programming?

(2) Explain ** operator.

(3) What is the use of del statement?

(4) Explain interpreter.

(5) Write agy two methods of Dictionary datatype.

2. Answer any three from the following: (Each of 5Marks)

(a) What are the reasons for python being the first programming language of learners?

(b) What are the arithmetic operators in python? Explain with example.

(6) Explain tuple with example.

(d) What is the role of indentation in python? Provide example to support your answer.

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15

	(e)	Write a python program to calculate area of rectangle and circle and print the result .Take input from user (length. breadth and radius)	
	(f)	Write a python program to swap two numbers without temporary variable.	
			o.
3. <i>A</i>	Answer a	my three from the following : (Each of 5Marks)	₀ 15
	(a)	Explain if-elif condition. When do we use it? Explain with example.	
	(b)	Explain break and continue statements when do we use it?	
	(c)	What is nested loop? Explain with example.	
	(d)	What is user defined function? How can we pass parameters in user	
		defined function?	
	(e)	Illustrate the use of range () in python along with an example.	
	(f)	Write a python program to print table of number, Take number from	
		user.	
4. <i>A</i>	Answer a	iny three from the following: (Each of 5Marks)	15
	(a)	Write a short note on class in object - oriented programming.	
	(b)	Discuss anonymous function.	
	(c)	What is List? Explain with example.	
	(d)	Explain map () function with example.	
	(e)	Write a python program to create a user defined function to calculate	
		square of number and square root of number. Take number from user.	
	(f)	Write a program in python to create a function using lambda to add two	
		numbers.	
		to the second se	
<i>5. A</i>	Answer a	ny three from the following: (Each of 5 Marks)	15
	(a)	What is variable Why we use it? What does mean by implicit	
		declaration of variables?	
	(b)	How to create Dictionary in python? Give example.	
	(c)	How does function return a value? Give example.	
	(d)	Write a python program to take a string from user and count number of	
6		vowel present in it.	
71	(e)	Explain Random module and its function.	