## USC S 102 - PYTHON Q.P. Code: 756002

			(2½ Hours)		[ Total Marks : 75					
N.B. :	(2) (3)	All the questions are of Figures to the right in Illustrations, in-depth a Mixing of sub-question	dicate full ma answers and di		ms will be appreciated.					
	Multi (1)	(i) List	not a core data	type (ii)	ns will be appreciated.  ? Dictionary Class					
	(	iii) Typle		(iv)	Class					
		Python is (i) Compiled iii) Interpreted	langu	age. (ii) (iv)	Procedure Non-Interactive					
	(3)	(3) To add a new element to a list we use which command?								
		(i) list1.add (5)	, A	(ii)	list1.append (5)					
		iii) list1.addLast (5)	18		list1.addEnd (5)					
		Which of the follow (i) [1, 2, 3] (ii) {1, 2, 3}	ingcis a pythor	ı typl (ii)	• ,					
	(5)	What gets print print (type (1/2)).	ed ? Assu	ming	g python version 3.4.3					
		(i) <typedint'></typedint'>		(ii)	<type 'number'=""></type>					
<	(1	iii) <type 'tuple'=""></type>		(iv)	<type 'float'=""></type>					

| TURN OVER

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

(2) What is the output of the following \_

$$X = ['ab', 'cd']$$

for i in X:

print (X)

- (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" + "be"

## (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 arry 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.
- (c) Explain tuple with example.
- (d) What is the role of indentation in python? Provide example to support your answer.

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(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.				
		n'i			
3. Answer	any three from the following: (Each of 5Marks)	∪ <b>15</b>			
(a)	Explain if-elif condition. When do we use it? Explain with example.				
(b)	- 01				
(c)	What is nested loop? Explain with example.				
(d)	What is user defined function? How can we pass parameters in user				
	defined function?				
(e)	= " - T				
(f)	Write a python program to print table of number, Take number from				
	user.				
4. Answer	any three from the following: (Each of 5Marks)	15			
(a)	Write a short note on class in object - oriented programming.				
(b)	10/1967.				
(c)	- Y)				
(d)	317				
(e)					
	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.				
5. Answer	any 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)					
(d)					
4	vowel present in it.				
(e)	Explain Random module and its function.				