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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) EXAMINATION - WINTER 2017

	•	Code: 2180/11 Date: 0//11/201	/
Su	bject	Name: Python Programming(Departmental Elective - III)	
Ti	me:02	2:30 PM TO 05:00 PM Total Marks:	70
Ins	tructio	ns:	
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
0.1	()		0.2
Q.1	(a)	How to comment specific line(s) in Python program?	03
	(b)	Write a Python program to print Fibonacci series upto <i>n</i> terms.	04
0.0	(c)	What is list in Python? Demonstrate use of any three methods of list.	07
Q.2	(a)	What is the use of islower() and isupper() method?	03
	(b)	Give the syntax and significance of raw_input() and input() methods.	04
	(c)	Write a Python program to check whether the given no is Armstrong or not	07
		using user defined function.	
		OR	
	(c)	Write a Python program to search a specific value from a given list of values	07
		using binary search method.	
Q.3	(a)	How map can be used in Python program? Explain with a suitable example.	03
(b)		Give the syntax and significance of string functions: title() and capitalize().	04
	(c)	Write a Python program to implement the concept of inheritance.	07
		OR	
Q.3	(a)	Give the output of following Python code:	03
		l=[(x, y) for x in [1,2,3] for y in [3,1,4] if x != y]	
		print l	
	(b)	How filter can be used in Python program? Explain with a suitable example.	04
	(c)	Write a Python program for TCP/IP chat application.	07
Q.4	(a)	Briefly describe the methods of regular expression.	03
	(b)	Give the output of following Python code:	04
		str1 = 'This is Pyhton'	
		print "Slice of String: ", str1[1:4:1]	
		print "Slice of String: ", str1[0:-1:2]	
	(c)	Write Python GUI program to create two push buttons using Tkinter. Background	07
		color of a frame should be changed when different buttons are clicked.	
0.4	()	OR	0.2
Q.4	(a)	Is tuple mutable? Demonstrate any two methods of tuple.	03
	(b)	Create a class Employee with data members: name, department and salary.	04
		Create suitable methods for reading and printing employee information.	o -
o =	(c)	Write a Python program to overload + operator.	07
Q.5	(a)	Explain the function which is used to retrieve the parts of URL.	03
	(b)	Read a text file in Python and print no. of lines and no. of unique words.	04
	(c)	Explain steps to create widgets. Write Python program to display a label on	07
		clicking a push button.	
~ =	, .	OR	<u> </u>
Q.5	(a)	List out keywords used in exception handling.	03
	(b)	What is dictionary in Python? Explain with an example.	04
	(c)	What is lambda function in Python? Explain with an example.	07
