GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VIII (NEW) EXAMINATION – WINTER 2017

Subject Code: 2180711   **Date: 07/11/2017**
Subject Name: Python Programming(Departmental Elective - III)
Time:02:30 PM TO 05:00 PM   **Total Marks: 70**
Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	How to comment specific line(s) in Python program?	**03**
	(b)	Write a Python program to print Fibonacci series upto *n* terms.	**04**
	(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 using user defined function.	**07**

OR

	(c)	Write a Python program to search a specific value from a given list of values using binary search method.	**07**
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: l=[(x, y) for x in [1,2,3] for y in [3,1,4] if x != y] print l	**03**
	(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: str1 = 'This is Pyhton' print "Slice of String : ", str1[1 **:** 4 **:** 1] print "Slice of String : ", str1[0 **:** -1 **:** 2]	**04**
	(c)	Write Python GUI program to create two push buttons using Tkinter. Background color of a frame should be changed when different buttons are clicked.	**07**

OR

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. Create suitable methods for reading and printing employee information.	**04**
	(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 clicking a push button.	**07**

OR

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**

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