

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VIII (NEW) EXAMINATION – WINTER 2020

Subject Code:2180711	Date:28/01/2021
Subject Name: Python Programming	

Subject Name: Python Programming

Time:02:00 PM TO 04:00 PM Total	al Marks: 56
---------------------------------	--------------

Instructions:

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What is dictionary in Python? Explain any four built-in dictionary methods with example.	03
	(b)	What are the key features of Python?	04
	(c)	Consider the list lst=[9,8,7,6,5,4,3]. Write the Python program which performs the following operation without using built-in methods. 1) Insert element 10 at beginning of the list. 2) Insert element 2 at end of the list. 3) Delete the element at index position 5.	07
		4) Print all elements in reverse order.	
Q.2	(a)	"List is mutable." - Justify with suitable example.	03
	(b)	Explain all augments print() method.	04
	(c)	Write a Python program to generate list of fibonacci number upto n fibonacci numbers.	07
Q.3	(a)	Differentiate List and Tuple in Python.	03
	(b)	What is negative indexes and how they are used in Python?	04
	(c)	What is monkey patching in Python explain with suitable example.	07
Q.4	(a)	What is map in Python? Explain with example.	03
_	(b)	What is the difference between range and xrange?	04
	(c)	Explain while loop & for loop with syntax and example in detail.	07
Q.5	(a)	Explain usage of continue, break, and pass keyword in python.	03
	(b)	Explain the exception handling in Python.	04
	(c)	Write a program to sort the given list without using built-in methods.	07
Q.6	(a)	Explain use of import keyword with suitable example.	03
	(b)	Write a program which demonstrates multiple inheritance.	04
	(c)	Write a program to search given number from list using binary search.	07
Q.7	(a)	Explain inheritance in Python.	03
	(b)	Explain any four methods for regular expression with proper example.	04
	(c)	Write a program which draw square and hexagon using turtle.	07
Q.8	(a)	Explain multi threaded programming in Python.	03
	(b)	Explain any four method for TCP socket in Python.	04
	(c)	Write GUI program using Tkinter which handle the button click event.	07
