



www.FirstRanker.com

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VIII (New) EXAMINATION - WINTER 2019

29/11/2019

Subject Name: Python Programming

Time: 02:30 PM TO 05:00 PM	Total Marks: 70

Instructions:

- 1. Attempt all questions.
- Make suitable assumptions wherever necessary.
 Figures to the right indicate full marks.

			MARKS
Q.1	(a)	Explain Difference between formal and actual parameter with example.	03
	(b)	What is Interpreter? Explain How python interpreter works.	04
	(c)	What are the differences between python and C language?	07
Q.2	(a)	Explain raw_input() function with example.	03
	(b)	Write a python program to implement Fibonacci sequence for	04
		given input.	
	(c)	Write a python program to implement isPalindrome() function to	07
		check given string is palindrome or no.	
	(-)	OR	0.7
	(c)	Write a python program to implement Student class which has method to calculate CGPA. Assume suitable class variables.	07
Q.3	(a)	Explain different types of comments in python.	03
	(b)	Explain Indexing and Slicing operation for string manipulation	04
	-	with example in python.	
	(c)	Explain Lists along with methods associated with lists and explain	07
		mutability with respect to Lists. OR	
Q.3	(a)	Explain lambda function along with map and filter functions.	03
Q.S	(b)	Write a python program to read line by line from a given files file1	04
	(0)	& file2 and write into file3.	••
	(c)	Explain Tuples, Lists and Dictionaries with example and give	07
	.,	comment on mutability for each of them.	
Q.4	(a)	Give difference between black-box and glass-box testing.	03
	(b)	Explain usage of try-except and assert keywords.	04
	(c)	Write a python program to implement linear search and binary	07
		search.	
		OR	
Q.4	(a)	Explain basic idea behind hash table with suitable example.	03
	(b)	Write a python program to implement multiple inheritance.	04
	(c)	Write a python program to implement merge sort.	07
Q.5	(a)	Explain regular expression methods match and search with its	03
		parameters.	
	(b)		04
		compounding v/s value of principal using pyplot library. Assume reasonable values for principal, interest rate and years	
	(c)	Explain Caesar cipher and Write a python program to implement	07
	(c)	Caesar cipher.	07



trank	er's	www.FirstRanker.com www.FirstRanker.co	m
Q.5	(a)	What is socket? How to create a socket in python?	,,,,,
	(b)	How to implement threads in python? Explain any one method using suitable example.	
	(c)	Write a python GUI program to implement calculator using Tkinter library.	

