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## GUJARAT TECHNOLOGICAL UNIVERSITY MCA- SEMESTER -III EXAMINATION -SUMMER-2019

Subject Code:4639304 Date: 29-05-2019 **Subject Name: Programming in Python** Time:02.30 pm to 5.00 pm **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 07 0.1 (a) Fill the blanks. (1) In Function, \_\_\_\_\_ is an argument that can accept any number of values. (2) It is not possible to create object of (3) \_\_\_\_\_ is a function that written inside the class. (4) \_\_\_\_\_ is an example of process (5) \_\_\_\_\_ is a logical point of connection between a server and client. (6) After installing the MySQL interface, we can see a new module by the name \_\_\_\_\_ in python library. (7) \_\_\_\_\_ is to communicate information clearly and efficiently using statistical graphs, plots and diagrams. **(b)** Do as directed. (1) Listout different modes of opening the file? 01 (2) What are the uses of threads? 02 (3) Give syntax of the methods which can be used to take input from the user in python program. 02 (4) Is tuple mutable? Lisout three methods of tuple. 02 **Q.2** (a) Write the general syntax of class declaration in python. Explain declaration of class and its object with example. 07 (b) What is inheritance? What are the different types of inheritance available in python? Explain each with example. 07 **(b)** What is dictionary in Python? Explain with an example. **07 Q.3** (1) What are the built-in datatypes of python? 03 (2) Write a note on Abstract class. 04 What is lambda function in python? Explain lambda function with example. Explain filter(), map() and reduce() functions in brief. 07 List out keywords used in exception handling and explain with example. Write a Q.3 Python program which will throw exception if the value entered by user is less than zero. **07 (b)** What is Decorators? What is Generators? Explain both with example. **07** (a) What is polymorphism? Explain method overloading and operator overloading **Q.4** with example. **07** 

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	(b)	Briefly describe the methods of regular expression. How to use regular expressions on file? Explain with example.
Q.4	(a)	What are the advantages of storing data into file? What are the different types of File in python? Write a program to read a text file in Python and print no. of lines and no. of unique words.
	<b>(b)</b>	Which are the different ways of creation of threads? Explain each with an example.
Q.5	(a)	What is Protocol? What are the different types of protocol model based on which other protocol model developed? Write a Python program for TCP/IP chat application.
	<b>(b)</b>	What is Data Frame? List out ways of creating data frame and explain any one with example. Also list out operations on data frame and explain anyone with example.
		OR
Q.5	(a)	How to insert, update and delete rows into mysql database using python? Write
=		a program to demonstrate all these operations.
	<b>(b)</b>	(1) What is PyLab? Write simple program to plot using PyLab.
		(2) Explain the function which is used to retrieve the parts of URL.