Seat No./Enrollment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MASTER OF COMPUTER APPLICATIONS – SEMESTER 2 – EXAMINATION – SUMMER 2026

Subject Code: 629403 **Date: 24/06/2026**

Subject Name: Programming in Python

Time: 10:30 AM TO 01:00 PM **Total Marks: 70**

Instructions:

1. Attempt all questions.

2. Make suitable assumptions wherever necessary.

3. Figures to the right indicate full marks.

4. Use of simple calculators and non-programmable scientific calculators are permitted.

Q.1	**(a)**	Explain Tuples with an example.	**07**
	(b)	Explain filter, reduce and map with suitable examples.	**07**
Q.2	**(a)**	Explain the concept of Inheritance with suitable example.	**07**
	(b)	Discuss creation of data frames from different sources.	**07**
		OR	
Q.2	**(b)**	Explain Dictionaries and associated methods.	**07**
Q.3	**(a)**	Explain Seek and Tell method with example.	**07**
	(b)	Discuss describe() method.	**07**
		OR	
Q.3	**(a)**	Discuss methods associated with List.	**07**
	(b)	Write a program to search for string starting with m and having total three characters using the search(), findall() and map() methods.	**07**
Q.4	**(a)**	Write a python program to count number of lines, words and characters in a text file.	**07**
	(b)	Discuss Encapsulation and Information Hiding.	**07**
		OR	
Q.4	**(a)**	Explain regular expressions and its usage.	**07**
	(b)	Write a Python program to retrieve all rows from table and display the column values in tabular form.	**07**
Q.5	**(a)**	Discuss counting and splitting of string with an example.	**07**
	(b)	Write a Python program to delete a row from emptab by accepting the employee number.	**07**
		OR	
Q.5	**(a)**	Discuss Histogram and write a program to explain the same.	**07**
	(b)	Discuss method resolution order in multiple inheritances.	**07**

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