Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER IV - EXAMINATION –WINTER-2022

Subject Code: 2648601   **Date: 17/12/2022**
Subject Name: 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.

Q.1	**(a)**	Write following programs for regular expressions.	
		1. To search for string starting with m and having total three characters using the search(), findall() and map() methods.	**04**
		2. To split a string into pieces where one or more non alpha numeric characters are found.	**03**
	(b)	Explain performing queries on data frames with example.	**07**
Q.2	**(a)**	Discuss instance and static variables with example.	**07**
	(b)	Explain List and Mutability.	**07**
		OR	
	(b)	Write a python program to pass a function as parameter to another function.	**07**
Q.3	**(a)**	Explain abstract data types.	**07**
	(b)	Explain Dictionaries and associated methods.	**07**
		OR	
Q.3	**(a)**	Discuss method resolution order in multiple inheritances.	**07**
	(b)	Explain Lambda function with example.	**07**
Q.4	**(a)**	Discuss Histogram and write a program to explain the same.	**07**
	(b)	Explain closing, reading and writing with files.	**07**
		OR	
Q.4	**(a)**	Discuss the steps of creating a table and inserting five records with appropriate example of your choice.	**07**
	(b)	Discuss sorting of data.	**07**
Q.5	**(a)**	Explain filter, reduce and map with suitable examples.	**07**
	(b)	Explain exception. Discuss different blocks associated with handling of exception.	**07**
		OR	
Q.5	**(a)**	Discuss all key points for retrieving information from a HTML file. Write a program to explain the same.	**07**
	(b)	Discuss the use of super keyword with an example.	**07**

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