Enrolment No. /Seat No.:	
CHIADAT TECHNOLOGICAL	INIVE

GUJARAT TECHNOLOGICAL UNIVERSITY MCA – SEMESTER II- EXAMINATION –WINTER-2024

Subject Code:629403 Subject Name: Programming in Python Time:02:30 PM TO 05:00 PM Instructions:				Date: 20/11/2024 Total Marks: 70	
	2. 3.	Attempt all questions. Make Suitable assumption Figures to the right indica Use of simple calculators a	te full marks.	ientific calculators are permitted	l.
Q.1	(a)	Provide significance of foll		07	
		1. self	2. pass	3. except	
		4. yield	5. global	6. finally	
		7. None			
	(b)	Explain Python Executio	n Model in detail.		07
Q.2	(a)	Define following Terms:			07
		1. Anonymous Functions	2. Decorators	3. hash table	
		4. Regular Expression	5. Mutable Data type	6. string slicing	
		7. Pickling			
	(b)	What is function? Explain its types with arguments. How to pass default argument and variable arguments using *args and **kwargs?			07
		-	OR		
	(b)	What is files management example	in python? Explain its all	function in detail with suitable	07
Q.3	(a)	Compare and Contrast us	age of List and Tuple.		07
	(b)	Explain significance of foll	owing function in Python:		07
		1. any()	2. repr()	3. type()	
		4. all()	5. ord()	6. dir()	
		7.range()			
			OR		
Q.3	(a)	Explain significance of examples.	map(), filter() and red	uce() function with suitable	07
	(b)	-	ython? List type of operation	tions on string. Explain Built-	07
	(-)	in-functions used for strip		S 1	

Q.4	4 (a) Define an exception. Explain process of catching multiple exceptions in Python.						
	(b)	Explain Multiple Inheritance in Python with Method Resolution order in Multiple					
		Inheritance.					
		OR					
Q.4	(a)	Discuss usage of flowing special method in Python class.	. 0				
		1init() 4contai	ins()				
		2add() 5iter	.()				
		3repr() 6new_	_()				
		7. super()					
	(b)	Explain Data Analysis and processing operations on dataset us	sing PANDAS library. 0				
Q.5	lowing functions with 0						
		significance:					
		1. rename() 4. unique()					
		2. describe() 5. drop()					
		3. set_index() 6. dropna()					
	(b)	Compare re.search() and re.match() methods with example.					
		OR					
Q.5 (a)		Write a Python program to search for a literal string in a string	and also find the 0				
		location within the original string where the pattern occurs.					
		Sample text: 'The quick brown fox jumps over the lazy dog.'					
		Searched words: 'fox'					
	(b)	What is the use of MatPlotLib in Python? Explain use of plot	ot(), show() and scatter() 0				
		functions of MatPlotLib.					
