Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER- V EXAMINATION-SUMMER 2023

Subject Code: 3151108 Date: 23/06/2023

Subject Name: Python Programming

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

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. Simple and non-programmable scientific calculators are allowed.

			MARKS
Q.1	(a)	What are key features of python?	03
	(b)	Differentiate between compiler and interpreter. How is the python an interpreted language?	04
	(c)	What is the difference between list and tuple in python? Explain with suitable example.	07
Q.2	(a)	What are local variable and global variable in python?	03
	(b)	Explain dictionary in python with the help of example.	04
	(c)	What are common built-in data types in python? OR	07
	(c)	What is type conversion in python? Explain with the help of suitable example.	07
Q.3	(a)	Discuss the following function of List in python. a) append() b) count()	03
	(b)	c) reverse() Explain the use of break, continue and pass statement in python.	04
	(c)	Explain Logical Operator and bitwise operator in python. OR	07
Q.3	(a)	Write the output of the following code.	03
Q.S	(a)	txt = "Python Programming"	05
		x = txt.casefold()	
		<pre>print(x)</pre>	
		y = txt.count("P")	
		<pre>print(y)</pre>	
		<pre>x = txt.split()</pre>	
		print(x)	
	(b)	Write a python program to check if given string is palindrome or not.	04
	(c)	Explain arithmetic operator and assignment operator in python.	07
Q.4	(a)	Write a Python function to sum all the numbers in a list.	03
-	(b)	Explain nested if else statement in python	04
	(c)	Explain the different methods available for manipulating	07
		the CSV files in python. OR	
ΩA	(a)	Explain the structure of while loop in python.	03
Q.4	(a) (b)	What is meant by module in python. List some of the built	03 04
	(10)	in module and built in functions of python.	V- T

	(c) Write a function in python to count the number of lines from a text file "sample.txt" which is not starting with an alphabet "T" If the file "sample txt" contains the		07
		alphabet "T". If the file "sample.txt" contains the following lines: What will be the output?	
		A boy is playing there.	
		There is a playground.	
		An aeroplane is in the sky.	
		The sky is pink.	
		Alphabets and numbers are allowed in the password.	
Q.5	(a)	What are keywords in python?	03
	(b)	What is micro python? Where is it use?	04
	(c)	Describe the different access mode of file in python.	07
	. ,	OR	
Q.5	(a)	What are the rules for naming a variable in python?	03
	(b)	Explain the difference between python and micro python.	04
	(c)	Describe the need for catching exceptions using try and except statements with suitable example.	07
