

GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC- SEMESTER-IV EXAMINATION – SUMMER 2025

Subject Code:21140204

Date:17-05-2025

Subject Name: Python Programming

Time:10:30 AM TO 12:30 PM

Total Marks:50

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) Explain standard data types of Python programming with examples.	05
	(b) Write a Python program to count words, characters and spaces from a text file.	05
Q.2	(a) Difference between C and Python.	05
	(b) Explain Looping Control Statements in Python with examples.	05
OR		
	(b) Write a Python Program that asks a user for a number. Then adds 3 to that number, and then multiplies the result by 2, subtracts twice the original number, then prints the result.	05
Q.3	(a) Explain Tuples, Lists and Dictionaries with examples and give comments on mutability for each of them.	05
	(b) Write a program to input 'n' numbers and store it in tuples.	05
OR		
Q.3	(a) Define List. How can we create and access the list?	05
	(b) Write a Python Program for Sum of squares of first n prime numbers.	05
Q.4	(a) Explain debugging with pdb using suitable examples.	05
	(b) Write a Python Program to find the area of a Rectangle.	05
OR		
Q.4	(a) Explain errors and exceptions in Python.	05
	(b) Write a Python Program of swapping two values	05
Q.5	(a) Explain any five built-in string functions in Python with examples.	05
	(b) Write a Python code to perform bubble sort.	05
OR		
Q.5	(a) Write an algorithm for Insertion Sort.	05
	(b) Explain the following python regular expression function with an example: match() and search().	05
