

Enrollment No./Seat No.:

GUJARAT TECHNOLOGICAL UNIVERSITY
Bachelor of Vocation - SEMESTER - IV EXAMINATION - WINTER 2025

Subject Code: 21140204

Date: 19-11-2025

Subject Name: Python Programming

Time: 02:30 PM TO 04:30 PM

Total Marks: 50

Instructions

- 1. Attempt all questions.**
- 2. Make Suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**
- 4. Use of simple calculators and non-programmable scientific calculators are permitted.**

	Marks
Q.1 (a) Explain basic structure of Python program.	05
(b) Explain different operators in Python.	05
Q.2 (a) Explain different data types in Python.	05
(b) Write a Python Program for factorial of a number.	05
OR	
(b) Write a program that asks two people for their names; stores the names in Variables called name1 and name2; says hello to both.	05
Q.3 (a) Explain different math modules used in Python with examples.	05
(b) Write a program to calculate compound interest in python.	05
OR	
(a) Explain different conditional statements used in Python with examples.	05
(b) Write a Python Program to check whether the given number is palindrome or not.	05
Q.4 (a) What is tuple? Explain tuple assignment and tuple slices.	05
(b) Explain any five functions of list.	05
OR	
(a) Explain errors and exceptions in Python.	05
(b) What is dictionary? Explain creation, initialization and access the element in dictionary with suitable example.	05
Q.5 (a) Explain any five string operations in Python with example.	05
(b) Write a Python code to perform insertion sort.	05
OR	
(a) “Strings are immutable.”-Justify the statement with suitable example.	05
(b) Write a Python code to perform bubble sort.	05
