

Enrollment No./Seat No.:

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Bachelor of Vocation - SEMESTER - IV EXAMINATION - SUMMER 2025**

**Subject Code: 1140503**

**Date: 15-05-2025**

**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. Use of simple calculators and non-programmable scientific calculators are permitted.**

	<b>Marks</b>
<b>Q.1 (a)</b> Explain Input-output function in Python.	<b>05</b>
<b>(b)</b> Differentiate Scripting Language and Programming language.	<b>05</b>
<b>Q.2 (a)</b> What is set? Explain different operations on set?	<b>05</b>
<b>(b)</b> Write a Python Program to read the marks and assign grade to a student.	<b>05</b>
<b>OR</b>	
<b>(b)</b> Write a Python program to check whether a given string is palindrome or not.	<b>05</b>
<b>Q.3 (a)</b> Define Set. Explain any three set operations	<b>05</b>
<b>(b)</b> Explain different looping constructs used in Python with examples.	<b>05</b>
<b>OR</b>	
<b>(a)</b> Describe the purpose of the random module in Python. Explain any three random module functions with example.	<b>05</b>
<b>(b)</b> Write a Python program to demonstrate a date format and print the same date in various format.	<b>05</b>
<b>Q.4 (a)</b> Explain Dictionaries and operations on Dictionaries.	<b>05</b>
<b>(b)</b> Explain given mathematical functions from the math module with example : ceil(), exp(), pow()	<b>05</b>
<b>OR</b>	
<b>(a)</b> Write a program in Python that defines a function to return a new list by eliminating the duplicate values in the list.	<b>05</b>
<b>(b)</b> Define Tuple. Explain any three tuple operations.	<b>05</b>
<b>Q.5 (a)</b> Explain following file handling functions 1) write 2) append 3) writelines	<b>05</b>
<b>(b)</b> Explain following string functions with example. 1) islower 2) min 3)rstrip 4) swapcase 5) find	<b>05</b>

**OR**

**(a)** List and explain operations of string in detail with example and define string. **05**

**(b)** Write a Python Program for factorial of a number. **05**

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