

# GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC- SEMESTER-IV EXAMINATION – WINTER 2024

**Subject Code:21140204**

**Date:28-11-2024**

**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. Simple and non-programmable scientific calculators are allowed.

		<b>Marks</b>
<b>Q.1</b>	(a) Explain mutable and immutable in Python.	<b>05</b>
	(b) Explain standard data types of Python programming with examples.	<b>05</b>
<b>Q.2</b>	(a) Define List. How can we create and access the list?	<b>05</b>
	(b) Write a Python Program to find the area of a circle.	<b>05</b>
<b>OR</b>		
	(b) Write a Python Program to check Armstrong Number.	<b>05</b>
<b>Q.3</b>	(a) Explain different conditional statements used in Python with examples.	<b>05</b>
	(b) Write a program to input 'n' numbers and store it in tuples.	<b>05</b>
<b>OR</b>		
<b>Q.3</b>	(a) Explain various tuple functions.	<b>05</b>
	(b) Write a Python Program to generate and print factorial numbers up to n.	<b>05</b>
<b>Q.4</b>	(a) Describe Expressions in Python with examples.	<b>05</b>
	(b) Write a Python code to compare two strings.	<b>05</b>
<b>OR</b>		
<b>Q.4</b>	(a) Explain the concept of L Value and R Value in detail.	<b>05</b>
	(b) Write a Python code to check whether the string is a palindrome or not.	<b>05</b>
<b>Q.5</b>	(a) What is a dictionary? Explain creation, initialization and access to the element in the dictionary with suitable examples.	<b>05</b>
	(b) Write a Python Program for factorial of a number.	<b>05</b>
<b>OR</b>		
<b>Q.5</b>	(a) Explain any five functions of the dictionary.	<b>05</b>
	(b) Write a Python Program to sort the given five numbers into ascending order.	<b>05</b>

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