

**GUJARAT TECHNOLOGICAL UNIVERSITY****BVOC- SEMESTER– IV EXAMINATION – SUMMER 2023****Subject Code:21140204****Date:01-07-2023****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
<b>Q.1</b> (a) Explain different operators in Python.	<b>05</b>
(b) Write a program that asks two people for their names; stores the names in variables called name1 and name2; says hello to both.	<b>05</b>
<b>Q.2</b> (a) Explain different conditional statements used in Python with examples.	<b>05</b>
(b) Write a Python Program for factorial of a number.	<b>05</b>
<b>OR</b>	
(b) Write a Python Program to check Armstrong Number.	<b>05</b>
<b>Q.3</b> (a) Explain Exception Handling in Python.	<b>05</b>
(b) Write a Python Program to find the area of a circle.	<b>05</b>
<b>OR</b>	
<b>Q.3</b> (a) What is tuple? Explain tuple assignment and tuple slices.	<b>05</b>
(b) Write a Python Program for Sum of squares of first n natural numbers.	<b>05</b>
<b>Q.4</b> (a) Define List. How can we create and access the list?	<b>05</b>
(b) What is dictionary? Explain creation, initialization and access the element in dictionary with suitable example.	<b>05</b>
<b>OR</b>	
<b>Q.4</b> (a) Define Error. Explain types of Error with example.	<b>05</b>
(b) Explain any five functions of dictionary.	<b>05</b>
<b>Q.5</b> (a) Explain any five string operations in Python with example.	<b>05</b>
(b) Write a Python code to perform insertion sort.	<b>05</b>
<b>OR</b>	
<b>Q.5</b> (a) Explain the following python regular expression function with an example: match() and search().	<b>05</b>
(b) Write a Python code to compare two strings.	<b>05</b>

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