

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VIII (NEW) EXAMINATION – SUMMER 2022****Subject Code:2180711****Date:07/06/2022****Subject Name:Python Programming****Time:10:30 AM TO 01:00 PM****Total Marks: 70****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.

- Q.1** (a) Explain islower() and isupper() method? **03**  
 (b) Explain Built-in-Datatypes in python. **04**  
 (c) List out and Explain Decision making statements in Python. **07**
- Q.2** (a) Explain Lambda Function in python with example. **03**  
 (b) Write a program to find Factorial of given number from user. **04**  
 (c) Explain types of class inheritance with example in python. **07**
- OR**
- (c) What is Exception Handling? Explain except clause with multiple exceptions with example. **07**
- Q.3** (a) Explain methods of calendar module with example. **03**  
 (b) Explain while true loop and break statement with example. **04**  
 (c) Explain types of function arguments with example. **07**
- OR**
- Q.3** (a) Explain DateTime module with example. **03**  
 (b) Explain for loop with else and continue statements with example. **04**  
 (c) Explain file Handling in Python. Also List out Attribute of file and explain with example. **07**
- Q.4** (a) Explain methods of regulation expression with example. **03**  
 (b) Differentiate: Global Scope & Local Scope with example. **04**  
 (c) Explain Method overloading and Method Overriding with example in python. **07**
- OR**
- Q.4** (a) Explain Dictionary with example in python. **03**  
 (b) Differentiate: Tuple, List & Dictionaries. **04**  
 (c) Write a Python program to overload + operator. **07**
- Q.5** (a) Give difference between mutable and immutable with example. **03**  
 (b) List out Searching algorithm. Explain any one with Python program. **04**  
 (c) Write a Python GUI program to create traffic signal with three lights using Tkinter. And also put timer of 2 minutes of each lights. **07**
- OR**
- Q.5** (a) Write a python program to implement of ceaser cipher. **03**  
 (b) Write a Bubble Sort program in python. **04**  
 (c) Explain step to create Widgets. Write python program to create login form. **07**

\*\*\*\*\*