Seat No.: _____                                    Enrolment No._____

# GUJARAT TECHNOLOGICAL UNIVERSITY
## MCA (INTEGRATED) - SEMESTER–IV EXAMINATION – WINTER 2020

**Subject Code:2648601**                                    **Date:04/02/2021**
**Subject Name:Python**
**Time:02:00 PM to 04:00 PM**                          **Total Marks: 56**
**Instructions:**
1. **Attempt any FOUR questions out of EIGHT questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

**Q.1(a)** **Do as Directed.**                                                                 **07**
1. IDLE stands for?
2. What is the use of Matplotlib?
3. What is Recursion?
4. Write all function name using Lambdas.
5. What is the use of seek () and tell () Methods.
6. Explain Assertion.
7. Explain List Comprehension.

**(b)** **Do as Directed.**
1. Write a program to find Largest number out of three numbers using function. **03**
2. What is indexing and slicing. Explain it with example.                        **04**

**Q.2(a)** Explain different types of variables.                                          **07**
**(b)** Write syntax for function in python. Write a code to find maximum of two      **07**
given numbers. Explain the use and creation, parameter passing in function. in p

**Q.3(a)** Explain various blocks of exception handling with example.                    **07**
**(b)** Write a program to find factorial with Iterative and Recursive methods.          **07**

**Q.4 (a)** Compare List, Tuple and Dictionary data types.                               **07**
**(b)** How to create our own module in python.                                          **07**

**Q.5(a)** How many types of files in python. Write the different operation on file       **07**
With example.
**(b)** What is regular Expressions? Explain.                                            **07**

**Q.6(a)** Explain the sequence character, Quantifiers and special character in           **07**
Regular expression.
**(b)** 1. Write a program to retrieve all rows from Student table and display            **05**
the Column values in tabular form.
2. Write program to create emp_table in MySQL database.                          **02**
**Q.7(a)** What is Data visualization? Explain Bar Graph with Example.                    **07**
**(b)** Explain function Decorators and Generators with Example.                          **07**

**Q.8(a)** Write a program using GUI to retrieve a row from a MySQL database table.       **07**
**(b)** What is Data frame? Write different operation on data frames.                     **07**