

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER IV- EXAMINATION –SUMMER-2022

Subject Code: 2648601

Date: 10/06/2022

Subject Name: Python

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.**

Q.1(a) Do as Directed. **07**

1. What is iteration in python?
2. What is generator?
3. What is Mutable Object?
4. What is the use of Matplotlib?
5. IDLE stands for_____.
6. Explain Assertion.
7. The assert Statement.

(b) What is Recursion? Write down program to find Fibonacci series of a number with recursive function. **07**

Q.2(a) What is module in python? Explain it with Example. **07**

(b) Explain Tuples, List and Dictionary in detail with suitable example **07**

OR

(b) Explain types of variables and types of methods in class using example. **07**

Q.3(a) What is dictionary in Python? Explain with an example. **07**

(b) What do you mean by Anonymous function? Explain map (), filter () and reduce () function with reference to lambda. **07**

OR

(a) Explain the Different types of Arguments in Python. **07**

(b) What are Exceptions? Write a python code to explain user define exception handling. **07**

- Q.4(a)** Explain file handling in Python with read () and write () function. **07**
- (b)** What is use of Data Frames? Explain with example. **07**

OR

- (a)** Explain seek() and tell() methods in detail with proper example to read a binary file. **07**
- (b)** Describe the methods of regular expression. How to use regular expressions on file? Explain with example. **07**
- Q.5(a)** What is inheritance? What are the different types of inheritance available in python? Explain each with example. **07**
- (b)** What is Data visualization? Explain Bar Graph with Example. **07**

OR

- (a)** Write a python program which show to insert and delete records in employee table with following fields. (emp_id , emp_name , emp_mnumber , emp_project) **07**
- (b)** Explain following methods of pyplot with example. hist () , pie () , title () **07**
