

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER–VIII (NEW) EXAMINATION – SUMMER 2021****Subject Code:2180711****Date:06/08/2021****Subject Name:Python Programming****Time:02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Explain different types of comments in Python.	03
	(b) Write a Python program to convert Celsius To Fahrenheit.	04
	(c) Explain immutable data types with their operations and functions.	07
Q.2	(a) What is Interpreter? Explain How Python interpreter works.	03
	(b) Write a python program to check Armstrong Number.	04
	(c) What are the differences between C and Python?	07
OR		
Q.3	(c) What is list in Python? Demonstrate use of any three methods of list.	07
	(a) Write a Python program to add two matrices.	03
	(b) Explain Lambda function with a suitable example.	04
	(c) What is dictionary in Python? Explain with an example.	07
OR		
Q.3	(a) What is type conversion in Python?	03
	(b) How to remove values from Python Array? Explain in brief.	04
	(c) Write a Python program to find reverse of given string using user defined function.	07
Q.4	(a) Explain split() and join() functions in Python?	03
	(b) Write a Python program that counts the number of occurrences of the character in the given string.	04
	(c) Write a Python program to implement the concept of inheritance.	07
OR		
Q.4	(a) Explain use of filter in Python.	03
	(b) Write a Python program to read a text file and do following: (1) Print no. of words (2) Print no. Statements	04
	(c) Explain Python recursive function with an example.	07
Q.5	(a) What is the difference between Python Arrays and lists?	03
	(b) Explain encryption and decryption in Python using an example.	04
	(c) Write a python program to implement merge sort.	07
OR		
Q.5	(a) Explain namespaces in Python.	03
	(b) What is socket? How to create a socket in python?	04
	(c) How to create a thread in python? Explain with an example.	07
