(220-CU-211651) Roll No. .....

PAPER ID—10710

B. Tech. EXAMINATION, 2023

(Second Semester)

OBJECT ORIENTED CONCEPTS AND PYTHON PROGRAMMING

CSE/AI/IOT/CS all Computer

Time : 3 Hours *Maximum Marks : 70*

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) Explain process of string.
   (b) Variables used in python.
   (c) What do you mean by immutable variables ?

(d) Define dictionary literals.

(e) Explain classes.

(f) Define try block.

(g) What do you mean by Tkinter module ?

$2 \times 7 = 14$

2. Explain various types of variables and operators used in python. 14

3. (a) What is Scope in Python ? And also explain directories ? 7

(b) Write a Python program to print all prime numbers less than 256. 7

4. What are lists and tuples ? What is the key difference between the two ? 14

5. What is Encapsulation in python ? Write a program using encapsulation in python programming ? 14

6. (a) Explain the operator overloading. 7

(b) What do you mean by Classes and Instances ? 7

7. Write short notes on the following :

(a) Creating simple GUI 5

(b) Widget attributes 5

(c) Event-driven programming paradigm. 4