

**B.E / B.Tech. PRACTICAL END SEMESTER EXAMINATIONS, JANUARY 2022**

First Semester

**GE3171 & PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY**

(Regulations 2021)

Time : 3 Hours

Answer any one Question

Max. Marks 100

**(To be filled by the question paper setter)**

<b>Aim/Principle/Apparatus required/Procedure</b>	<b>Tabulation/Circuit/Program/Drawing</b>	<b>Calculation &amp; Results</b>	<b>Viva-Voce</b>	<b>Record</b>	<b>Total</b>
			<b>10</b>	<b>10</b>	<b>100</b>

1.	Write a python program to create, append and remove lists in python
2.	Write a program to demonstrate working with tuples in python.
3.	Write a program to demonstrate working with dictionaries in python
4.	Write a python program to find largest of three numbers
5.	Write a python program to convert temperature to and from Celsius to fahrenheit
6.	Identification and solving of simple real life or scientific or technical problems, and developing flow charts for the same. (Electricity Billing, Retail shop billing,)
7.	Identification and solving of simple real life or scientific or technical problems, and developing flow charts for the same. (, Sin series, weight of a motorbike, Weight of a steel bar)
8.	Identification and solving of simple real life or scientific or technical problems, and developing flow charts for the same. (compute Electrical Current in Three Phase AC Circuit, etc.)
9.	Write a Python programming using simple statements and expressions (exchange the values of two variables, distance between two points).
10.	Write a python program to Python programming using simple statements and expressions (circulate the values of n variables, distance between two points)

11.	Write a python programming for Scientific problems using Conditionals and Iterative loops. (Number series, Number Patterns)
12.	Write a python programming for Scientific problems using Conditionals and Iterative loops. (pyramid pattern)
13.	Write a python program to Implementing real-time/technical applications using Lists, Tuples(Items present in a Library)
14.	Write a python program to Implementing real-time/technical applications using Lists, Tuples(Components of a car)
15.	Write a python program to Implementing real-time/technical applications using Lists, Tuples, (Materials required for construction of a building –operations of list & tuples).
16.	Write a python program to Implementing real-time/technical applications using Lists, Tuples. (word count,Longest number)
17.	Write a python program to Explore Pygame tool
18.	Write a Python class to convert an integer to a roman numeral
19.	Write a python program to developing a game activity using Pygame like bouncing ball
20.	Write a python program to developing a game activity using Pygame like car race