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

First Semester

GE3171 & PROBLEM SOLVING AND PYTHON PROGRAMMIG LABORATORY

(Regulations 2021)

Time : 3 Hours   Answer any one Question   Max. Marks 100

(To be filled by the question paper setter)

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

1.	Write a program to demonstrate different number data types in python
2.	Write a program to perform different arithmetic operations on numbers in python.
3.	Write a program to create, concatenate and print a string and accessing substring from a given string.
4.	Write a python script to print the current date in following format "Sun May 29 02:26:23 IST 2017"
5.	Write a python program to create, append and remove lists in python
6.	Write a program to demonstrate working with tuples in python
7.	Write a program to demonstrate working with dictionaries in python
8.	Write a python program to find largest of three numbers
9.	Write a python program to convert temperature to and from Celsius to fahrenheit.
10.	Write a python program to construct the following pattern using nested for loop: * ** *** ****

	***** ***** **** *** ** *
11.	Write a python program to print prim numbers less than 20:
12.	Write a python program to find factorial of a number using recursion:
13.	Write a python program to that accepts length of three sides of a triangle as inputs. The program should indicate whether or not the triangle is a rightangled triangle (use Pythagorean theorem):
14.	Write a python program to define a module to find Fibonacci Numbers and import the module to another program
15.	Write a python program to define a module and import a specific function in that module to another program.
16.	Write a script named copyfile.py. This script should prompt the user for the names of two text files. The contents of the first the second file. Source code: create a text file as "input.txt" and write some date in it. This will be used in the program. with open("input.txt") as input: with open("output.txt","w") as for line in input: output. write(line) print("JOB DONE!!")
17.	Write a program that inputs a text file. The program should print all of the unique words in the file in alphabetical order
18.	Write a Python class to convert an integer to a roman numeral
19.	Implementing programs using Strings. (reverse, palindrome,)
20.	Implementing programs using written modules and Python Standard Libraries (pandas, numpy.)