

7. Explain turtle operations in detail with example. Write a python code to draw regular polygon using turtle. 15

UNIT - IV

8. Explain the following : 15
- (a) Inheritance
 - (b) Multithreading
 - (c) Reader-writer problem
9. Write Python Program to Calculate Area and Perimeter of different Shapes using Polymorphism. 15

Roll No.

3129

**B. Tech. 3rd Semester (CSE)
Examination - February, 2022**

PYTHON PROGRAMMING (w.e.f. March-2021)

Paper : PCC-CSE-207-G(A)

Time : Three Hours]

[Maximum Marks : 75

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

Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain the following : 2.5 × 6 = 15
- (a) Explain the different method to concatenate two strings in Python explain with suitable example.
 - (b) Name the command to clear the python shell.

- (c) What are the different ways to sort the dictionary in python ?
- (d) What are the different application of "Tkinter" in python programming ?
- (e) Is python scripting language ? Justify it.
- (f) Explain getopt() function in python.

UNIT - I

- 2. (a) Explain command line arguments and write a program to demonstrate command line arguments. 7
- (b) Explain the Identifiers, Keywords, Statements, Expressions and Variables in Python programming language with examples. 8
- 3. (a) Explain the use of join() and split() string methods with examples. Describe why strings are immutable with an example ? 7
- (b) Write Pythonic code to find the factorial of a number. 8

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UNIT - II

- 4. (a) Write Python program to check for the presence of a key in the dictionary and find the sum of all its values. 8
- (b) Write Python Program to count the number of characters in a string using dictionaries. Display the keys and their values in alphabetical order. 7
- 5. (a) Write a Python Program to input information for n number of students as given below : 8
 - (i) Name
 - (ii) Registration Number
 - (iii) Total Marks
- (b) Write Python program to generate a dictionary that contains (i: i*i) such that i is a number ranging from 1 to n. 7

UNIT - III

- 6. Explain the python libraries to create graphical user interface in detail. 15

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P. T. O.