



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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Mid - Term Examinations – October 2025

Date: 07-10-2025

Time: 11.45am to 01.15pm

School: SOCSE	Program: B.Tech	
Course Code: CSE1500	Course Name: Computational thinking using Python	
Semester: III	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
Marks	16	14	20	0	0

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	List out the four Pillars of Computational thinking.	2 Marks	L1	C01
2	Differentiate between if-else and if-elif-else constructs with examples.	2 Marks	L2	C01
3	List out numeric data types in Python.	2 Marks	L1	C02
4	Identify the advantages of Brute force strategy.	2 Marks	L1	C02
5	Outline the differences between = and == operators in Python with suitable example?	2 Marks	L2	C01

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Discuss the importance of Computational thinking with suitable example.	10 Marks	L2	C01
	b.	Demonstrate the implementation of relational operators using if else construct with a neat algorithm and flowchart.	10 Marks	L2	C02
Or					
7.	a.	Describe an algorithm. What are the characteristics of a good algorithm?	10 Marks	L2	C01
	b.	Explain match statement in python with syntax and suitable example.	10 Marks	L2	C02

8.	a.	Describe the brute force technique of problem solving. Explain various steps involved in Brute force method. Also list its advantages and disadvantages	10 Marks	L2	C03
	b.	Write syntax of for loop. Write a Python program to print multiplication tables from 1 to 10.	10 Marks	L3	C03
Or					
9.	a.	Explain the key features of divide and conquer method. Mention the steps involved and illustrate it using an example	10 Marks	L2	C03
	b.	Write a Python algorithm and program to check the given number is prime or not. Print primes from 100 to 200.	10 Marks	L3	C03