



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.																			
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Mid - Term Examinations - MARCH 2026

Date: 10 - 03- 2026

Time: 02:00pm - 03:30pm

School: SOE	Program: Civil/Mechanical/Petroleum		
Course Code : CSE2282	Course Name: Computational Thinking and AI Programming		
Semester: IV	Max Marks: 50	Weightage: 25%	

CO - Levels	C01	C02	C03	C04	C05
Marks	24	26	----	----	----

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	Rephrase the definition of a Computational Problem in your own words.	2 Marks	L2	C01
2	Explain Abstraction using the sandwich-making example.	2 Marks	L2	C01
3	Make use of the pass statement in a Python code snippet.	2 Marks	L3	C02
4	Model string immutability through a simple code experiment.	2 Marks	L3	C02
5	Create a script that utilizes both local and global variables.	2 Marks	L3	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Compare and contrast Iteration (loops) and Recursion, providing a code example for each.	10 Marks	L2	CO1
	b.	Outline the differences between Pseudocode, Flowcharts, and Python code using a single algorithm as an example.	10 Marks	L2	CO1
Or					
7.	a.	Explain Python conditionals by contrasting independent if statements with an if-elif-else chain.	10 Marks	L2	CO1
	b.	Extend simple decision-making into a "Tiered Decision" or a "Nested Hierarchy" using a Customer Loyalty or Access Control example.	10 Marks	L2	CO1

8.	a.	Illustrate the best loop (for vs. while) to build solutions for two different scenarios.	10 Marks	L3	CO2
	b.	Produce a recursive program to solve for a factorial or range sum.	10 Marks	L3	CO2
Or					
9.	a.	Build a comparison of Python's four data structures and choose the right one for a specific task.	10 Marks	L3	CO2
	b.	Develop a file-handling program that utilizes different access modes to save and read data.	10 Marks	L3	CO2