

## MID TERM EXAMINATIONS - October-November 2023

Programme	: B.Tech.	Semester	: Fall 2023-2024
	: Introduction to Problem Solving and Programming / CSE1021	Slot	: D11+D12+B14
Time	: 1 ½ hours	Max. Marks	: 50

## **Answer all the Questions**

Q.No.	Question Description	Marks
1	"What is the concept of an algorithm, and what purpose does it serve? Explore the significance of algorithms and clarify the key characteristics that define a well-designed algorithm".	10
X	"Design an algorithm for computing the area and perimeter of a rectangle, employing both pseudo code and flowchart representations."	10
2	Explain in detail about the various operators used in python with suitable example.	10
4	List out the differences between List and Tuple with example to justify each difference.	10
5	"Develop a program, featuring a custom function that takes two user-defined numbers as parameters. If the first number is smaller than the second, swap the numbers and return them, with the second number in the place of the first and the first number in place of the second. If the first number is equal to or greater than the second, return the numbers in their original order."	10
NCT TMP.	FOR TEE (REPERTED) OOO	

## (1) Array

- (ii) write a python programs.
- (ii) Time complexity &
- civ) flowchast, Algo & pseudo code-
- (v) fibonacci
- (ii) List, tupple, Dictionary.