VIT®

B H O P A L

www.vitbhopal.ac.in

TERM END EXAMINATIONS (TEE) – December 2021- January 2022

Programme	:	B.Tech.- BAI,BAS,BCE,BCY,BEC,BHI,BME,BOE,BSAMIP	Semester	:	Fall 2021-22
Course Name	:	Introduction to Problem Solving and Programming	Course Code	:	CSE1021
Faculty Name	:	Dr. Kannan Shanmugam	Slot / Class No	:	C21+C22+C23/0112
Time	:	1½ hours	Max. Marks	:	50

Answer ALL the Questions

Q. No.	Question Description	Marks

PART - A (30 Marks)

1 (a) Write a pseudo code and draw a flow chart for finding an element in an unsorted integer array.   **10**

OR

(b) Define Tuple in python. Demonstrate the following Tuple operations with syntax and example code   **10**

    a. Access a tuple item with negative indexing
    b. To check if item is exists using for loop
    c. Change an item in tuple
    d. Remove an item from tuple
    e. Unpacking a tuple with *

2 (a) Write a program in python to find and print ALL the PRIME number in a given limit   **10**

OR

(b) Demonstrate the following conditional and looping statements with example program   **10**
    a. while
    b. for
    c. if

3 (a) Write a program in python to find N^{th} largest element in an integer array   **10**

OR

(b) Write a program to generate a list of Armstrong numbers in a range   **10**

PART - B (20 Marks)

4   Demonstrate the following array operations in an character array with code   10
   a. Program to Find no. of occurrences of an element
   b. Program to Remove the duplicate values

5   Write a program to greatest common divisor of any three numbers   10

⇔⇔⇔