

University of Engineering & Management, Kolkata Odd Semester Examination, February, 2021

Course: B. Tech Semester: 1st

Paper Name: Computer Programming and Problem Solving using Python and C - I

Paper Code: ESC181

Full Marks: 100 Time: 3 Hours

Instructions:

1. Students need to answer all questions of the allotted Set.

2. The answers should be written in white papers (preferably A4, but not mandatory).

- 3. The First page of the answer script must have Students Name, Section, Class Roll, Enrolment Number and Registration Number written at the top.
- 4. Subsequent pages must have Section and Roll Number written at the top.
- 5. The entire answer script is needed to be scanned and a single PDF file should be submitted.
- 6. The file name should be "Section Roll.pdf" (e.g. A 100.pdf)

Set - 3

- 1. Write a C program to read a sentence from user and count the number of occurrences of a user given word. Assume that the maximum length of the sentence is 100 and the user given word is 10.
- 2. Write a C program to declare a one-dimensional integer array of size 'n' where 'n' is user given. Read user given numbers to store in the array. Now read another number from the user and check whether that number is present in the array or not. If present, print the index position of the element. Otherwise print "Not Present".
- 3. Write a C program to find the sum of 'n' user given integers. Where 'n' is the total number of integers to be given as input by the user. Do not use Array.
- 4. Write the function definition of the following **recursive** function declaration in C programming language. Use this function to calculate GCD of two user given number (a, b).

int GCD(int a, int b);