

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 - 1

1. Write a C program to print the following pattern up to 'n' lines where 'n' is user given:

		Α			
	Α	В	Α		
Α	В	С	В	Α	

- 2. Write a C program to print all prime numbers up to 'n' where 'n' is user given.
- 3. Write a C program to declare a two-dimensional integer array of size 2×3. Read user given numbers to store in the array. Now print the sum of the column wise maximum of the numbers stored in the array.
- 4. Write a C program to read a user given string of length 'n' where 'n' is user given. Find the length of the string. Do not use 'string.h'.