



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 - 12

1. Write a C program to read 'n' user given sentences and find the total number of words in all user given sentences. Assume that the maximum length of each sentence 100.
2. Write a C program to concatenate two user given strings. Consider that the maximum length input strings is 'n' where 'n' is user given. Do not use "string.h"
3. Write a C program to read 'n' numbers from user into an array where 'n' is user given. Now, input may contain numbers repeated multiple times. Find the unique numbers and store it in a separate array.
4. Write a C program to print the following pattern up to 'n' lines.

```
A
A B
A B C
```