

University of Engineering & Management, Kolkata Odd Semester End Term Practical Examination, January, 2022

Programme Name: B.Tech in Computer Science Semester: 5th

Paper Name: IT Workshop
Paper Code: PCCCS 592

Full Marks: 80 Time: 3 hours

SET - II

Attempt all questions. Each question carries 20 marks.

Q. No. 1. Write a python program to construct the following pattern using nested for loop:

*	*	*	*	*	*	*	*	*
*	*	*	*		*	*	*	*
*	*	*				*	*	*
*	*						*	*
*								*
*	*						*	*
*	*	*				*	*	*
*	*	*	*		*	*	*	*
*	*	*	*	*	*	*	*	*

- **Q. No. 2.** Create a MATLAB Script to convert an input temperature from degrees Fahrenheit to an output temperature in kelvin. Also use a *subplot* to convert the output in centigrade domain as well.
- **Q. No. 3.** Write a Python program to create, concatenate and print a string and accessing the substring from the same string. (Take user input for string values)
- **Q. No. 4.** Create a MATLAB Script to plot the values of Sin(x) and Cos(x) for a predefined interval of 2*pi for the range of [0 50] in Iinspace domain. Use a variable name for plot function and the line color value range is [0 0.53 0.53]. LineWidth, MarkerEdgeColor, MarkerSize, MarkerFaceColor etc. functions cane be used for line specifications. Also use the hold on for two different curve of Sin(x) and Cos(x).

*****END*****