Roll No:



## PADRE CONCEIÇÃO COLLEGE OF ENGINEERING, VERNA-GOA

## First Year Engineering

## Internal Test-I

Semester & Course: I (RC 2019-'20)

Subject: Mathematics-I

Course Instructor: Ms. Komal Paroolkar

Date: 29/11/2021 Time: 09:30-10:30 am

Max Marks: 25

Instructions: Attempt all questions. Assume missing data, if any and justify.

		<u>Marks</u>	<u>co</u>	<u>CL</u>
Q1.	Solve $\frac{dy}{dx} = \frac{2y - x + 3}{4y - 2x + 2}$	[6]	FE110.3	CL3
Q2	Solve $(e^y + 1)\cos x  dx + e^y \sin x  dy = 0$	[5]	FE110.3	CL3
Q3.	Solve $(x + 2y + 3)dx - (2x - y + 1)dy = 0$	[7]	FE110.3	CL3
Q4.	Solve $x \frac{dy}{dx} + y = y^2 \log x$	[7]	FE110.3	CL3

\*All the best!\*