PRESIDENCY UNIVERSITY

BENGALURU

SCHOOL OF ENGINEERING MID TERM EXAMINATION - OCT 2023

Semester : Semester V - 2021 Course Code : CIV3002 Course Name : Sem V - CIV3002 - Analysis of Indeterminate Structures Program : B.TECH

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.

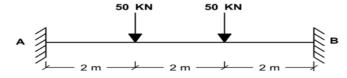
(iii) Scientific and non-programmable calculator are permitted.

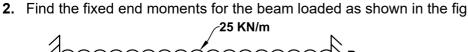
(iv) Do not write any information on the question paper other than Roll Number.

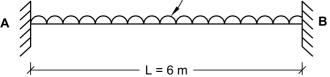
PART A

ANSWER ALL THE QUESTIONS

1. Calculate the fixed end moments for the beam loaded as shown in the fig







(CO1) [Knowledge]

(CO1) [Knowledge]

Date : 31-OCT-2023 Time : 11:30AM - 1:00PM Max Marks : 50 Weightage : 25%





(2 X 5 = 10M)

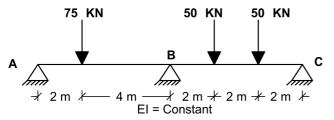
Roll No

PART B

ANSWER ALL THE QUESTIONS

2/2

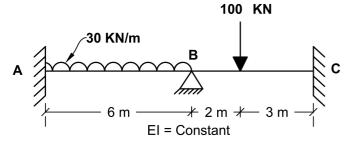
3. Analyze the continuous beam ABC loaded as shown in the fig by moment distribution method and final moments also draw BMD.



(CO2) [Comprehension]

 $(2 \times 10 = 20M)$

4. Analyze the continuous beam ABC loaded as shown in fig by slope deflection method and calculate only slopes and final moments also draw BMD



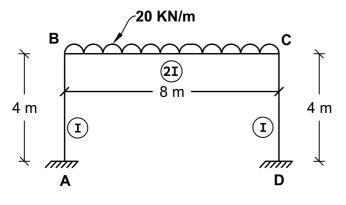
(CO2) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(1 X 20 = 20M)

5. Analyze the Portal frame loaded as shown in the fig by slope deflection method and draw the BMD also sketch the deflected shape of the structure.



(CO3) [Application]