Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 07-10-2025 **Time:** 09.30am to 11.00am

School: SOE	**Program**: B. Tech (Civil Engineering)	
Course Code : CIV3002	**Course Name:** Analysis of Indeterminate Structures	
Semester: V	**Max Marks**: 50	**Weightage**: 25%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**30**	**20**	**-**	**-**	**-**

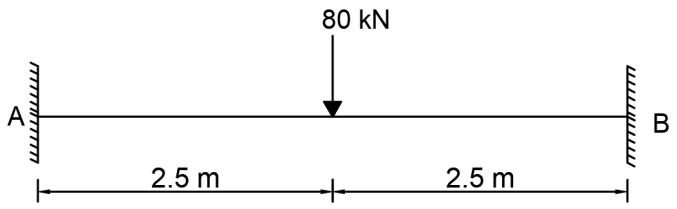
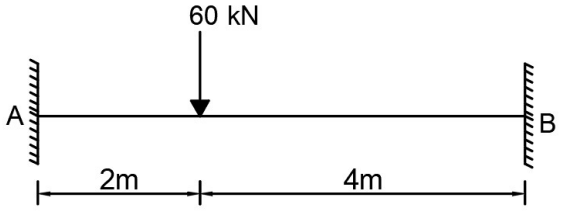
Instructions:

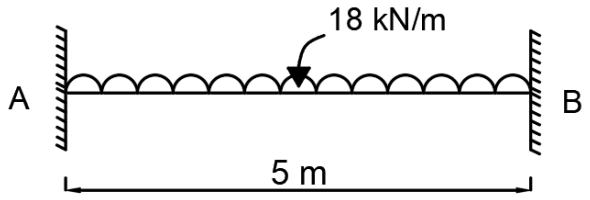
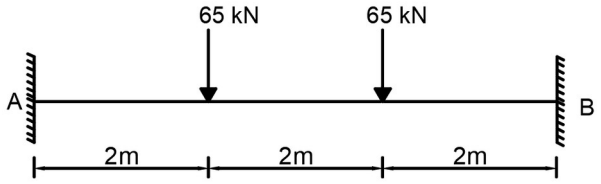
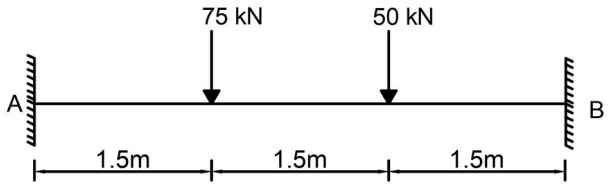
(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

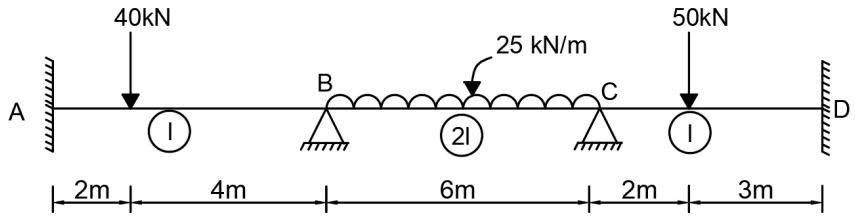
Answer ALL the Questions. Each question carries 2 marks. **5Q x 2M=10M**

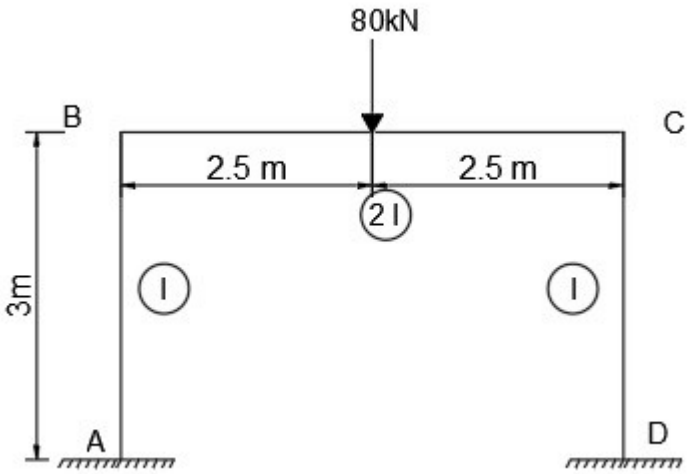
1	**Determine the fixed end moments for the beam loaded as shown in figure.** 	**2 Marks**	**L3**	**CO1**
2	**Determine the fixed end moments for the beam loaded as shown in figure.** 	**2 Marks**	**L3**	**CO1**
3	**Determine the fixed end moments for the beam loaded as shown**	**2 Marks**	**L3**	**CO1**

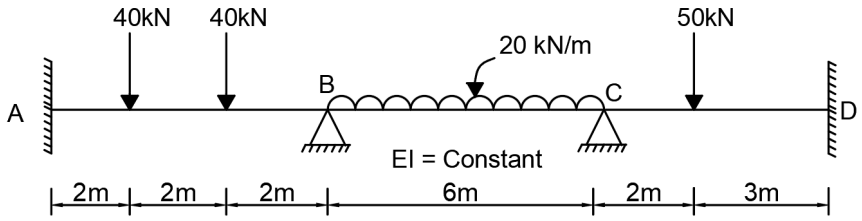
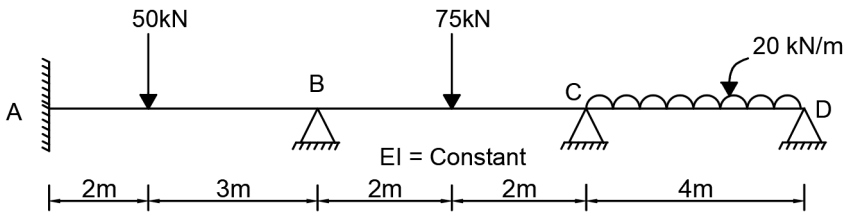
	in figure.  			
4	**Determine the fixed end moments for the beam loaded as shown in figure.**  	**2 Marks**	**L3**	**CO1**
5	**Determine the fixed end moments for the beam loaded as shown in figure.**  	**2 Marks**	**L3**	**CO1**

Part B

Answer the Questions. **Total Marks 40M**

6.	**Analyze the continuous beam loaded as shown in figure by slope deflection method and draw the BMD and SFD. Also sketch the deflected shape of the structure.**  	**20 Marks**	L3	**CO 1**
	Or			
7.	**Analyze the 2D portal frame loaded as shown in figure by slope deflection method and draw the BMD and SFD. Also sketch the deflected shape of the structure.**	**20 Marks**	**L3**	**CO 1**

8.		**Analyze the continuous beam loaded as shown in figure by moment distribution method and draw the BMD and SFD. Also sketch the deflected shape of the structure.** 	**20 Marks**	L3	**CO 2**
Or					
9.		**Analyze the continuous beam loaded as shown in figure by moment distribution method and draw the BMD and SFD. Also sketch the deflected shape of the structure.** 	**20 Marks**	**L3**	**CO 2**