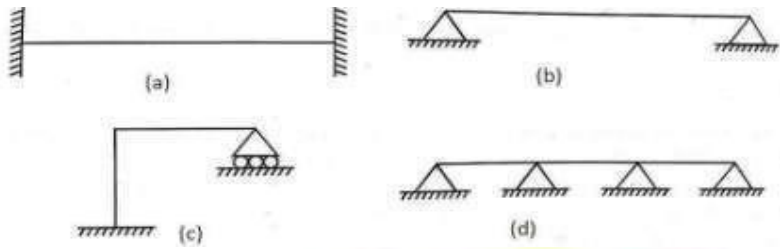
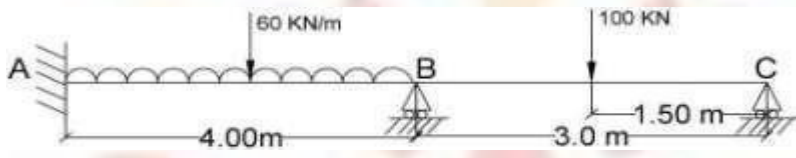
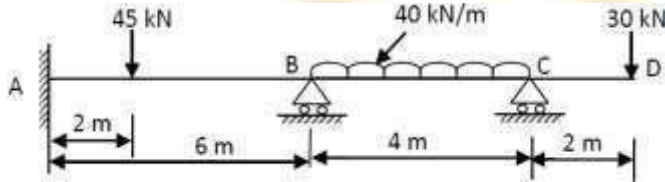
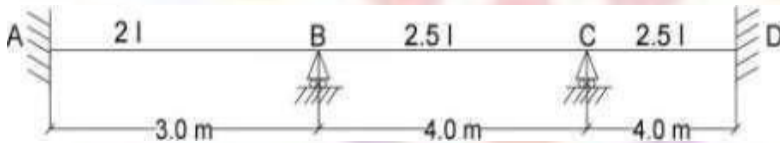


UNIT-IV

S. NO	Questions	BTL	CO	PO
PART-A(STORTANSWERQUESTIONS)				
1	Determinethedegreeofstaticallyindeterminacyanddegreeofkinematic indeterminacyofthebeamsinFigure 	L2	CO 4	2
2	Analyzethecontinuousbeamshowninfigure4.2.byflexibilitymatrixmetho d.Drawthebendingmomentdiagram.TakeEIisconstantthroughout	L1	CO 4	1
3	Usingflexibilitymatrixmethodforthecontinuousbeamshownin figure4.3anddrawthebendingmomentdiagram,EIis Constant. 	L2	CO 4	3
4	Analyzethecontinuousbeamshowninfigure4.4,ifthedownwardsettle mentofsupportsBandCare	L1	CO 4	2
5	Analyzethecontinuousbeamshowninfigure4.5.bystiffnessma trixmethod.Drawthebendingmomentdiagram.TakeEI constant throughout.	L3	CO 4	1

S.NO	Questions	BT L	CO	P O
PART-B(LONGANSWERQUESTIONS)				
1	Analyzethecontinuousbeamshowninfigure4. 7,ifthesupportBsinksby10mm.TakeEI=200x 10 ¹⁴ KNm ² .Usedisplacementmethod.	L3	CO4	2
2	Analyzethecontinuousbeamshowninfigure4.6bydispla cementmethod.Drawthebendingmomentdiagram. TakeEIconstant throughout.	L2	CO4	1
3	Analyzethecontinuousbeamgiveninfigure4.8,bythestif	L1	CO4	2

	ness method. Draw the bending moment diagram. Take $AB=2I, BC=CD=I$			
4	At two span continuous beam shown in figure 4.9. The moment of inertia is constant throughout. Analyze the beam by stiffness method. 	L2	CO4	1
5	Analyze the continuous beam shown in figure 4.10, if the support B sinks by 10mm. Take $EI=6000\text{KNm}^2$. Use displacement method 	L3	CO4	2

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