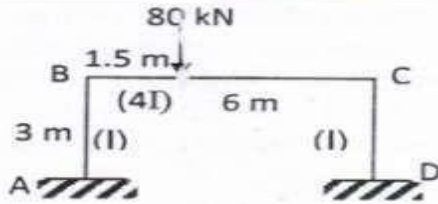
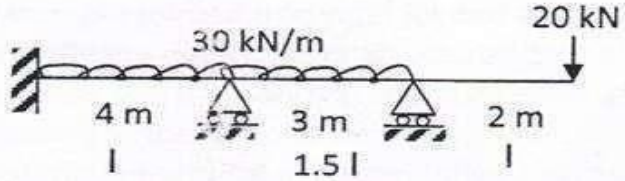


UNIT-II

S. NO	Questions	BTL	CO	PO
PART-A(STORT ANSWER QUESTIONS)				
1	Determine the moments at supports if support by yield by 10mm under the given loading for the beam as show in figure below by Kani's method, $E=2.05 \times 10^5 \text{ N/mm}^2, I=30 \times 10 \text{ mm}^4$.	L1	CO 2	1
2	DeterminetheendmomentsofthecontinuousbeamasshowninfigurebelowbyKani'smethod.EIisconstant.	L3	CO 2	2
3	a)ExplainhowsettlementofsupportsinaaccountedintoKani'smethodofanalysisofstructures. b)Explainhowportalframeswithsideswaysareanalysed.	L1	CO 2	1
4	Analyse the structure shown infigureusingKani'smethodand drawBMD.	L1	CO 2	1
5	AnalysethecontinuousbeamshowninfigurebyKani'smethodandsketchTheB.Mdiagramgivesall thesalientvaluesatwospancontinuousbeamABCrestsonsimplesupportsat A,BandC.Allthethreesupports areatsamelevel.ThespanAB=5mandspanBC=4m.ThespanABcarriesuniformlydistributedloadof15kN/mmandspan BC carries a central point load of 25kN.EI is constant for the whole beam. Find	L3	CO 2	1

S.NO	Questions	BT L	CO	P O
PART-A(LONGANSWERQUESTIONS)				
1	Analyzetheframeshowninfigureusingkani'smethod 	L2	CO2	2
2	ExplainKani'smethodofsolvingaframesubjectedtoswayforces.	L1	CO2	1
3	EvaluatethebendingmomentandshearforcediagramsofabeaminfigurebytheKani'smethod	L2	CO2	2
4	AnalyzethecontinuousbeamshowninfigureusingKani'smethod	L1	CO2	1
5	Calculatetherotationfactorsforthebeamshowninfigurebelow. 	L3	CO2	2