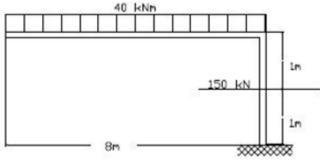
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\mathbf{N}	IATRIX	ME	THO	DDS O	FAN	ALYS	IS O	F STI	RUCI	FURES	
		Bran	ch: S	SE, Su	•			PC10	30		
		(Regulations 2017)									
Time: 3 Hours									Question Code: SD18002051		
			F	PART-A	A (10	X = 2	20 Ma	arks)			
1. Answer the following	g questic	ons.									
/ \ TT 71	C	. •					.1 1	c		, ,	1 : 2
(a) What is the advantage	_		-				ethod	s of s	tructu	irai anal	lysis?
(b) Differentiate between					rmatic	on.					
(c) State different levels				•	4		1:_0				
(d) What do you mean l	• •	•	•				•				
(e) Define equivalent jo					i or an	iarysis	•				
(f) What are the levels (c) What do you man 1			•		9						
(g) What do you mean I	• •	nse oi	asu	ructure	!						
(h) State reciprocal theo		ha daa	****	of woric	one tra	no of i	ndoto	mino	0772		
(i)What do you understa (j)What is unit load met		ne deg	gree (oi vario	ous ty	pe or i	naete	rimma	cy?		
(j) w nat is unit load me	.110u ?	DΛ	рті	B (5 X	10-5	O Mar	lke)				
	Ancw			e questi				wina			
	Allsw	ci airy	11100	questi	0118 11	OIII tII	e ione	Jwing	•		
2. (a) Analyze the beam	if supp	ort B	sinks	s by 30	mm.						[5]
•	11			3							
											8
■		— вм			88	333		5M	_		8
						В					
(b) Draw shear force	and ben	ding r	nom	ent dia	gram.						[5]
2 () N. 1 (1.6		1	.1	c				гі	,	, [5]
3. (a) Neglecting axial of	ietormat	ions,	anal	yze the	irame	e as sh	own 1	n _g.	EI = (constan	it. [5]
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(b) Draw Shear Force Diagram and Bending Moment Diagram.

[5]

- 4. (a) Calculate the degree of various type of indeterminacy.(b) Discuss on Principle of superposition.

[5] [5]



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5.	(a) Analyze the continuous beam having three spans each of 3m length by stiffness matrix method. Extreme ends are fixed and intermediate supports are roller supports. The beam carries 20 kN concentrated loads at mid-point of each span. EI = constant.	[5]
	(b) Draw Shear Force Diagram and Bending Moment Diagram.	[5]
6.	(a) Discuss on Unit load method.	[5]
	(b) State the difference between Static and kinematic indeterminacies.	[5]
7.	(a) Compare force method and displacement method of analysis.	[5]
	(b) What do you mean by flexibility method of matrix analysis?	[5]
8.	Write Short notes on any two of the following	
	(a) Virtual work.	[5]
	(b) Assumption on analysis of pin jointed frame.	[5]

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