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<09/02/2022>

CONTINUOUS INTERNAL EVALUATION- 2

Dept: Civil Sem / Div: 1st A, B & C Sub: Elements of Civil Engineering & Mechanics

Date: 18/02/2022 Time: 9:30-11:00 am Max Marks: 40 Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

PART A 1 a Find the forces in all the wires (AB, BC, and CD) and the load W ₁ to keep the system in equilibrium with BC horizontal. Take W ₂ =1000N. BC B 39.09N No. 1305.40N No. 1000N	10	L3	CO2,3
Find the forces in all the wires (AB, BC, and CD) and the load W ₁ to keep the system in equilibrium with BC horizontal. Take W ₂ =1000N.	10	L3	CO2,3
BC = 839.09N TCO = 1305.40N W. W2 = 1000N			
b Two identical rollers each of weight 1000N are supported by an	10	L3	CO2,3
inclined plane and vertical wall. Find the actions at A, B and C.			
OR			
The coefficients of friction are μ_s =0.3 and μ_k =0.25 between a surfaces of contact. Determine the smallest force P required to justant block D moving if,		L3	3 CO2,3

Prepared by: Shishirakrishna S.

HOD

Vivekananda College of Engineering & Technology, Puttur

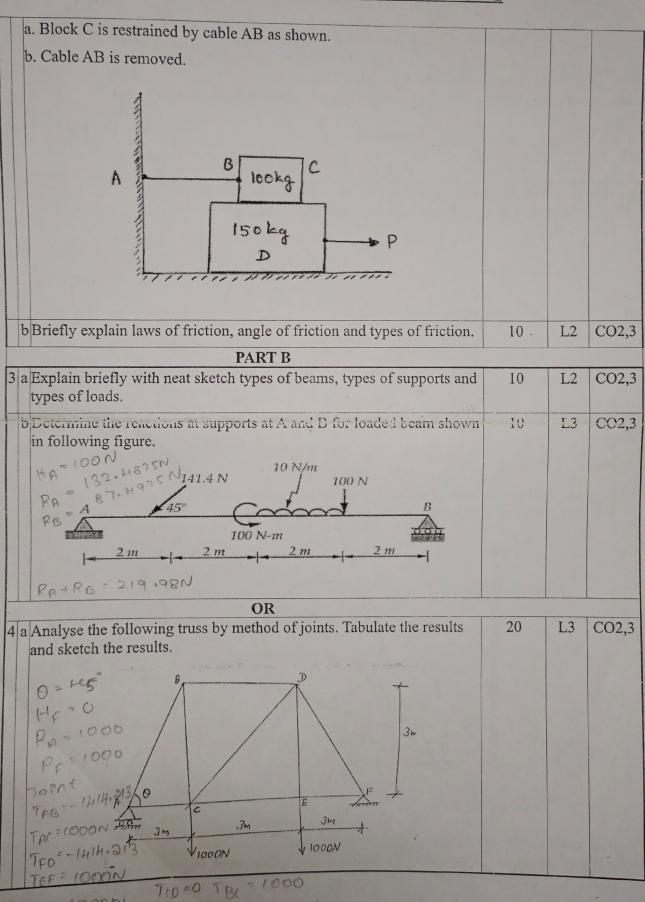
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CONTINUOUS INTERNAL EVALUATION- 2



Tep = 1000 N Tep = 1000 N Page: 2

