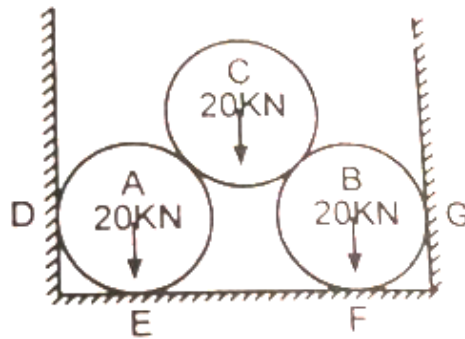


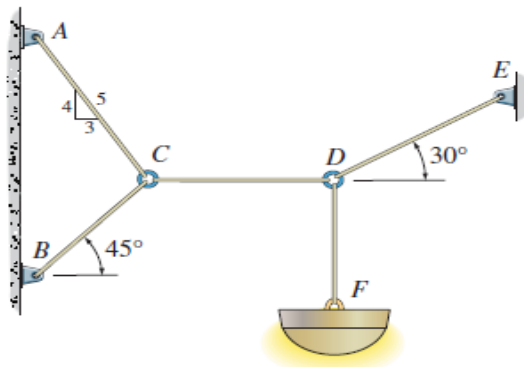
SNS College of Technology, Coimbatore-35.
(Autonomous)

B.E – Mechatronics Engineering
23MET101 Engineering Mechanics
Assignment Problem

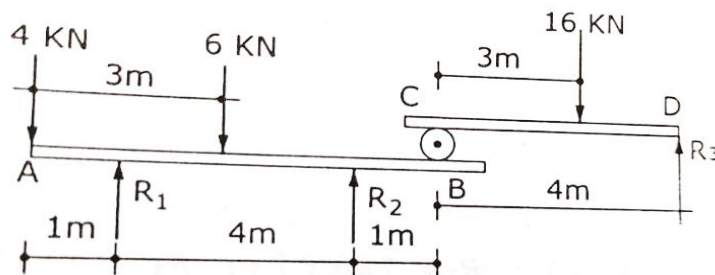
1. Three smooth pipes each weighing 20kN and of diameter 60 cm are to be placed in a rectangular channel with horizontal base as shown in fig. Calculate the reactions at the points of contact between the pipes and between the channel and the pipes. Take, width of channel as 160 cm.



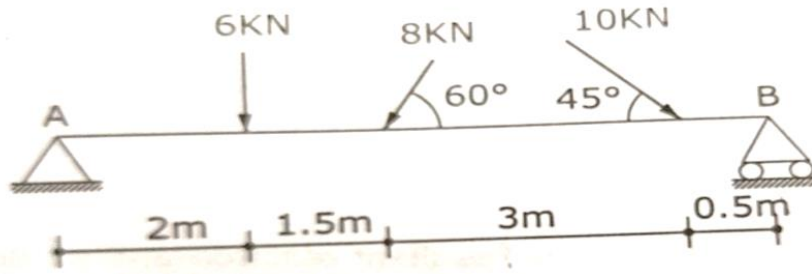
2. Determine the tension developed in each cord required for equilibrium of the 20-kg lamp as shown.



3. Calculate the reactions R_1 , R_2 and R_3 for the two beams AB and CD supported as shown. There being a Hinge connecting B and C.



4. Find the support reactions of the beam shown of the beam shown



5. Find the support reactions of the beam shown of the beam shown

