

1. For the beams loaded as shown in the Fig. 1 determine the equations of elastic curves using the integration method. Determine the values of maximum deflection, slope and their locations.
2. Determine the deflection of guided roller of the uniform beam shown in the Fig. 2 using moment area method.
3. Determine the deflection of the point C of the uniform overhanging beam shown in the Fig. 3. Use moment area method.
4. Determine the deflection and slope at the internal hinge of the beam shown in the Fig. 4.
5. Determine the slope and deflection of the point C of the non-uniform beam shown in the Fig. 5 using moment area method and verify result by integration method.
6. Determine the deflection of the point C of the right angle bent as shown in the Fig. 6.

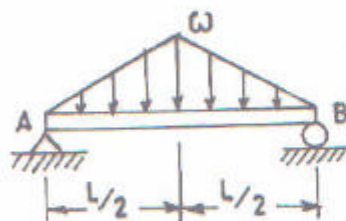
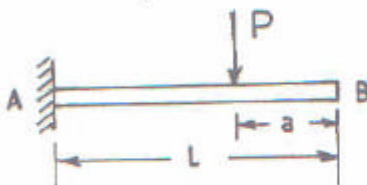
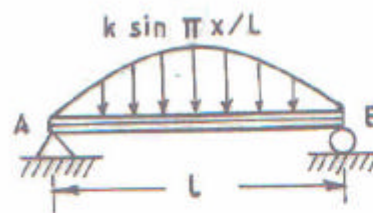


FIG.1

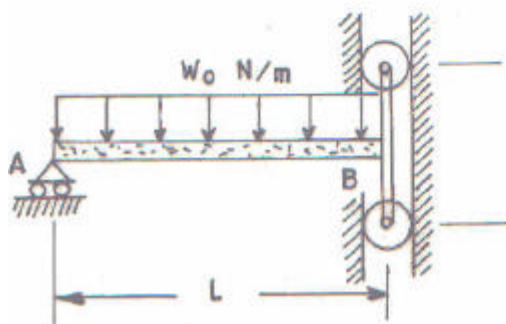


FIG.2

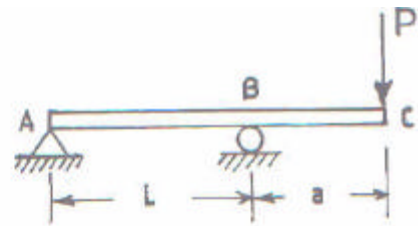


FIG.3

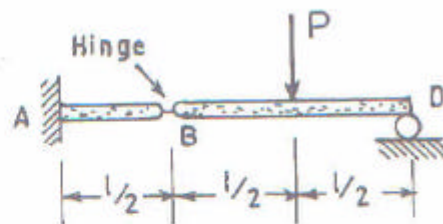


FIG.4

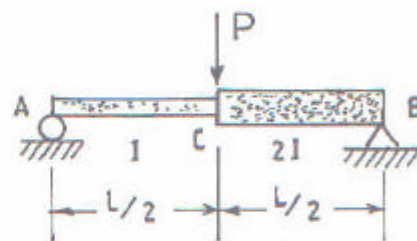


FIG.5

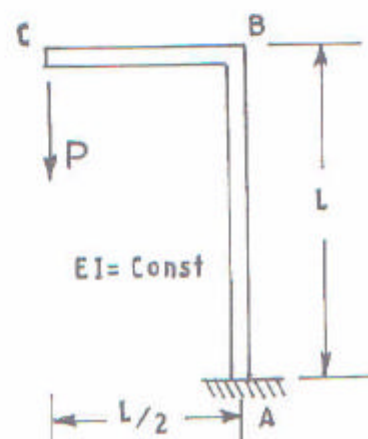


FIG.6