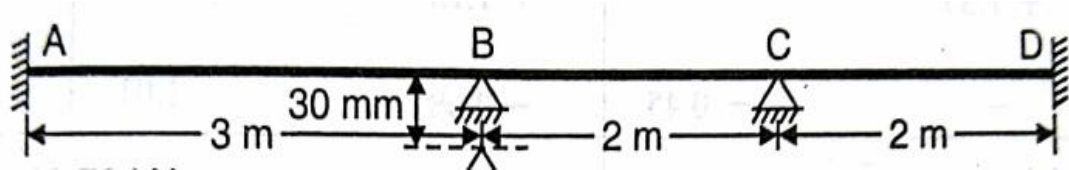


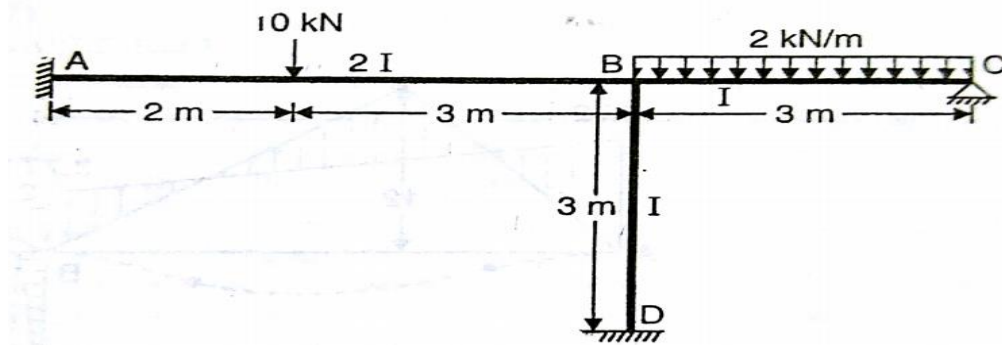
ASSIGNMENT NO : 12

1. A continuous beam ABC is shown in fig. calculate the moment induced at the end if support B settle by an amount of 30 mm. draw the BMD and plot the deflected shape of the beam.

Take $E = 2 \times 10^5 \text{ N/mm}^2$ and $I = 3 \times 10^6 \text{ mm}^4$.



2. A continuous beam ABC is supported on an elastic column BD and is loaded as shown in figure. Treating joint B is rigid. Analyze the frame.



3. The continuous beam shown in fig. has rigidly fixed ends at C and D and is pinned at E and has rigid joint at A and B. the members are of uniform sections and material throughout. Sketch the BMD and deflected shape for frame.

