

THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, PATEIALA

UES 010: SOLIDS AND STRUCTURES

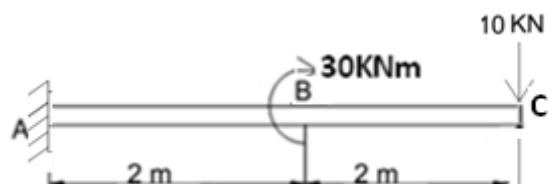
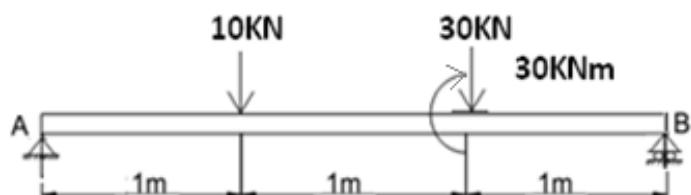
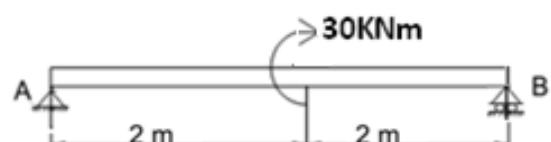
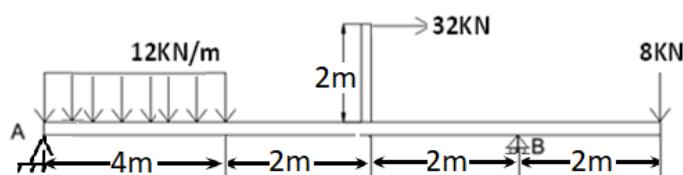
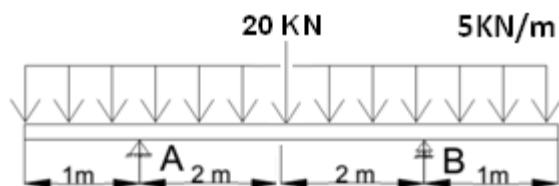
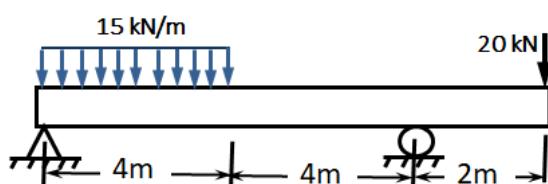
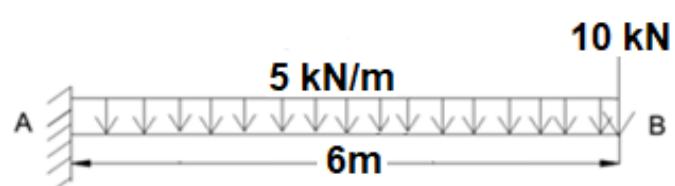
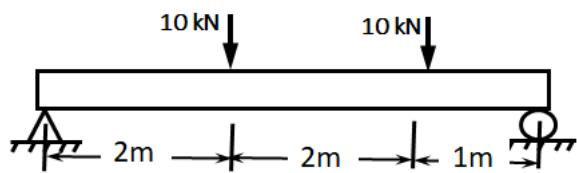
B.E. – Second Year

Session: 2020-2021

Tutorial Sheet No. 6

(SFD and BMD)

1. Obtain the expressions for the axial force, shear force and bending moment for each segment of the beams shown below. Draw the AFD, SFD and BMD indicating the values of the salient points. Also find the location of the point of contra-flexure, wherever applicable.



2. The shear force diagram for simply supported beams with supports at points A and B are shown in the figures below. Draw the loading and bending moment diagrams for the same.

