

QUESTION 1

Figure 1 shows a structural frame with a uniformly distributed load of 10 kN/m applied to the beam. The frame is supported by a pin support at A and a roller support at B. The dimensions are given in meters. The frame consists of a horizontal beam of length 6 m and a vertical column of height 3 m . The beam is divided into two equal segments of 3 m each. The column is attached to the midpoint of the beam. The frame is shown in Figure 1.

