



Figure 3

A beam AB has length 5 m and mass 25 kg. The beam is suspended in equilibrium in a horizontal position by two vertical ropes. One rope is attached to the beam at A and the other rope is attached to the point C on the beam where $CB = 0.5$ m, as shown in Figure 3. A particle P of mass 60 kg is attached to the beam at B and the beam remains in equilibrium in a horizontal position. The beam is modelled as a uniform rod and the ropes are modelled as light strings.

(a) Find

- (i) the tension in the rope attached to the beam at A ,
- (ii) the tension in the rope attached to the beam at C .

(6)

Particle P is removed and replaced by a particle Q of mass M kg at B . Given that the beam remains in equilibrium in a horizontal position,

(b) find

- (i) the greatest possible value of M ,
- (ii) the greatest possible tension in the rope attached to the beam at C .

(6)

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