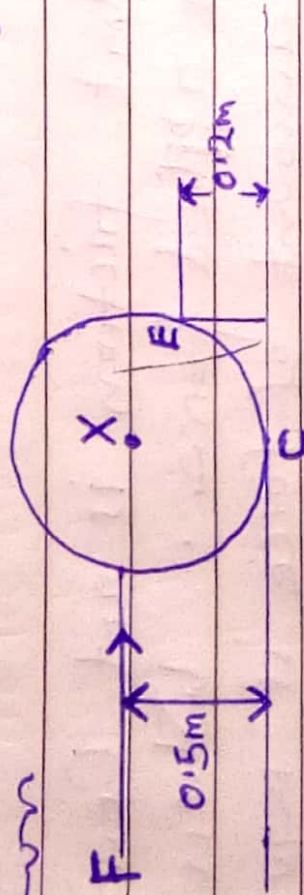(d) A wheel of radius 0.5m rests on a level surface at point C and makes contact with edge E of a block height 0.2m as shown

A force F is applied horizontally through the axle of a wheel at X to just move the wheel over the block. If the weight of the wheel is 180N, find the

(i) force exerted at point E.

(ii) force F.