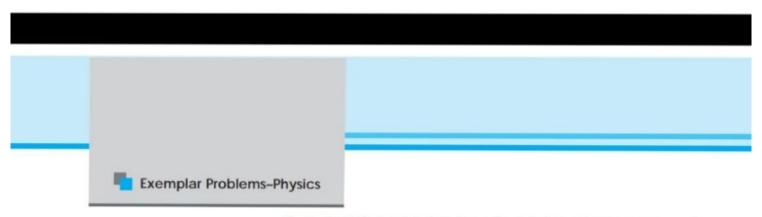
- 5.2 A metre scale is moving with uniform velocity. This implies
 - (a) the force acting on the scale is zero, but a torque about the centre of mass can act on the scale.
 - (b) the force acting on the scale is zero and the torque acting about centre of mass of the scale is also zero.



- (c) the total force acting on it need not be zero but the torque on it is zero.
- (d) neither the force nor the torque need to be zero.

Solution

Direct the scale is moving with uniform vel which means dv = 0 or dp = 0Then ace: to Newton's 2^{nd} Law ⇒ F = 0.

At Also the scale is not undergoing any notational motion so targue is also zero.

Ans = 5(b)