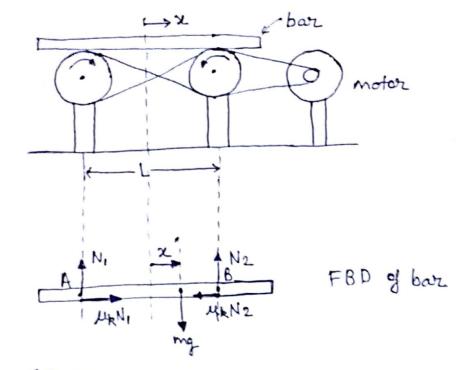
Quiz 1



$$\Sigma F_y = 0$$

$$N_1 + N_2 = mg - 0$$

$$\Sigma M_A = 0$$

$$N_2 L = mg (\frac{1}{2} + x) - 0$$

$$N_3 = mg (\frac{1}{2} + x)$$

Substituting, N2 in eq (), us get N1 = mg - mg ( = +x)  $N_1 = mg \left[ L - \left( \frac{L}{2} + x \right) \right] = mg \left( \frac{L}{2} - x \right)$ 

&Fx = max  $\mu_k N_1 - \mu_k N_2 = m \dot{x}$ Mg.从上 = x-上-x=mx

> = + 2xg/h = 0 ix + (2gHR)x = 0 Comparing with

$$\omega_{*} = \frac{2\pi u_{*}}{2}$$
 $\omega_{*} = \frac{2\pi u_{*}}{4\pi^{2}f^{2}} = \frac{2\pi u_{*}}{4\pi^{2}f^{2}L}$ 
 $\omega_{*} = 2\pi f$ 
 $\omega_{*} = 2\pi f$ 
 $\omega_{*} = 2\pi f$ 
 $\omega_{*} = 2\pi f$