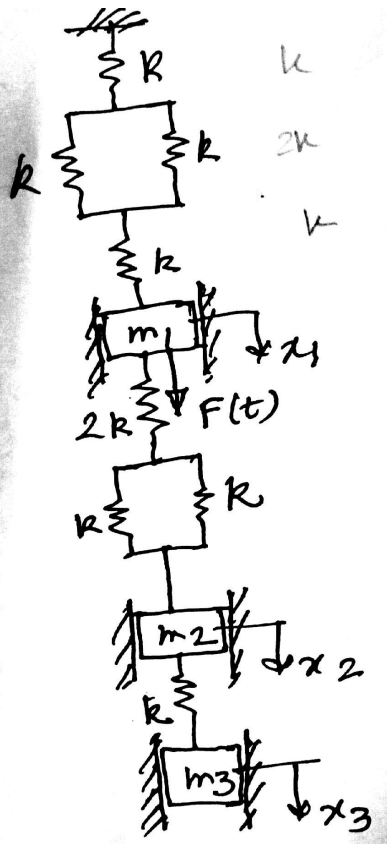
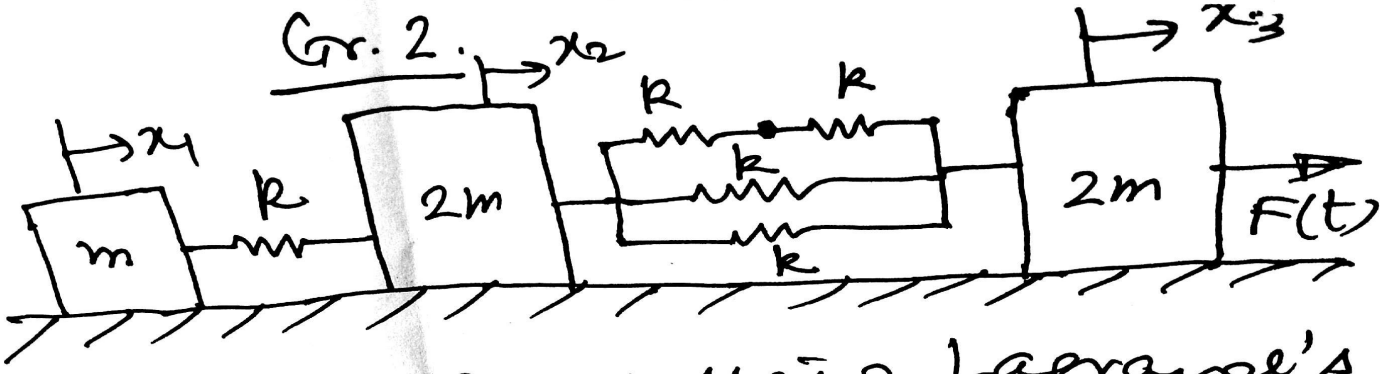


$m_1 = 2m, \quad m_2 = m, \quad m_3 = m$

Derive the D-EOM by Newton's method with proper FBDs.

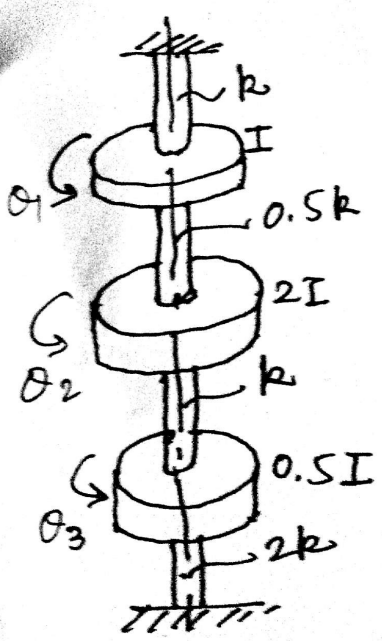
Obtain $\omega_1, \omega_2, \omega_3$, $\{A_1\}$, $\{A_2\}$, $\{A_3\}$ by analytical method.

Gr. 2.



Derive the DEOM using Lagrange's equations. Obtain the natural frequencies and the associated modal vectors by analytical method.

Gr. 3



Obtain the DEOM by Newton's (MOM) method.

Obtain ω_i & $\{A_i\}$ $(i=1,2,3)$ by analytical method.

The discs are rigid.