

Name-code: _____

2. To the ends of a massless thread that goes around a pulley one fixes two masses m_1 and m_2 . There is friction between the thread and the pulley such that the thread starts sliding over the pulley when the ratio between the masses is $m_2/m_1 = \eta_0$.
- (i) Find the friction coefficient μ .
 - (ii) Find the acceleration of the masses if $m_2/m_1 = \eta > \eta_0$.