Week & Questions

1) Why do we have to violate our corms while folling for safety and in what direction?

Ans! This is because the change in angular momentum of the system of arms and body due to external torque due to gravity will oreduce with the gain of momentum of the orms alone in the scene storection of falling went to any body part 2 . Landhe centre of mass the body dre changed while aurborne land, why No, as no esternal force can be a exerted on the body other than gravity which uniformly acts on each body sport. Thus the c.o. M. of w. each body sport warment be changed while each body sport rannet be changed while courbonne

(3) Dorive the angle beyond which & sidewards toffling cannot be prevented assuming gap between feet of c.o.m from ground. 0 = tan'(d) h. (4). Where will the reaction force of con the body will be acting for the lifting of mosumum load without toppling? Ans: The oreaction force will be acting set the toes (5). Willin what oregion should the centre cof mass lie in the transverse plane for safe Ans: It should be within the overlangle just enclosing the normal sposition of with the feel.