6 (a) State the quark composition of:		te the quark composition of:
	(i)	a proton
		[1]
	(ii)	a neutron
		[1]
	(iii)	an alpha-particle.
		[2]
(k	(b) In the alpha-particle scattering experiment, alpha-particles were directed at a thin gold for State what may be inferred from:	
	(i)	the observation that most alpha-particles pass through the foil
		[1]
	(ii)	the observation that some alpha-particles are scattered through angles greater than 90°.
		[2]
(0	<b>)</b> Ap	roton and an alpha-particle are moving in the same uniform electric field.
	De	termine the ratio
		acceleration of proton due to the electric field acceleration of alpha-particle due to the electric field
		ratio =[2]