(a)		e of the results of the $lpha$ -particle scattering experiment is that a very small minority of the articles are scattered through angles greater than 90°.
	Sta	te what may be inferred about the structure of the atom from this result.
		[2]
(b)		adron has an overall charge of $+e$, where e is the elementary charge. The hadron contains ee quarks. One of the quarks is a strange (s) quark.
	(i)	State the charge, in terms of <i>e</i> , of the strange (s) quark.
		charge =[1]
	(ii)	The other two quarks in the hadron have the same charge as each other.
		By considering charge, determine a possible type (flavour) of the other two quarks. Explain your working.
		[2]
		[Total: 5]