(a)	State one difference between a hadron and a lepton.			
			[1]	
(b)	(i)			
		proton		
		neutro	n:[2]	
	(ii) yo		our answer in (i) to determine the quark composition of an $lpha$ -particle.	
		quark o	composition:[1]	
(c)	The results of the $\alpha\text{-particle}$ scattering experiment provide evidence for the structure of atom.			
	result 1:		The vast majority of $\alpha\text{-particles}$ pass straight through the metal foil or are deviated by small angles.	
	result 2:		A very small minority of $\alpha\text{-particles}$ are scattered through angles greated than 90°.	
	State what may be inferred from			
	(i)	result 1	1,	
			[1]	
	(ii)	result 2	2.	
			[2]	