	Nucleus X is unstable and emits a β^+ particle to form nucleus Z.		
By comparing the number of protons in each nucleus, state and of nucleus X is less than, the same as or greater than the charge		comparing the number of protons in each nucleus, state and explain whether the charge ucleus X is less than, the same as or greater than the charge of:	
	(i)	nucleus Y	
		[1]	
	(ii)	nucleus Z.	
		[2]	
(b)	(b) Hadrons can be divided into two groups (classes), P and Q. Group P is baryons.		
	(i)	State the name of group Q.	
		[1]	
	(ii)	Describe, in general terms, the quark structure of hadrons that belong to group Q.	
		[1]	
		[Total: 5]	

(a) Nuclei X and Y are different isotopes of the same element.