(a)	Sta	te the name of the class (group) of fundamental particles that contains a neutrino.
		[1]
(b)	A hadron P has a charge of +1e, where e is the elementary charge. The hadron P is c of a down antiquark and only one other quark.	
	(i)	Identify a possible flavour for this other quark.
		[1]
	(ii)	State what type of hadron is P.
		[1]
(c)	Nucleus Q undergoes radioactive decay to form nucleus R, emitting an antineutrino an another particle X, as shown in the decay equation.	
		$Q \longrightarrow R + X + \overline{v}$
	(i)	State what particle is represented by X.
		[1]
	(ii)	Compare the nucleon numbers of Q and R.
		[1]
	(iii)	Compare the charges of Q and R.
		[1]
		[Total: 6]