(a)	Fluorine-18 ( $^{18}_{9}$ F) is an isotope that decays to an isotope of oxygen (O) by the emission of a $\beta^+$ particle.		
	(i)	Complete the nuclear equation for the decay, including all the particles involved.	
		<sup>18</sup> <sub>9</sub> F →	
			[3]
	(ii)	A quark in the fluorine-18 nucleus changes flavour during the decay. State this change flavour.	e of
		quark to quark.	[1]
(b)	A hadron has a charge of $-2e$ , where $e$ is the elementary charge.		
	(i)	State and explain whether the hadron is a meson or a baryon.	
			[2]
	(ii)	State a possible quark composition for the hadron.	
			[1]
		[Total	l: 7]