8	A neut	ron within a nucleus decays to produce a proton, a β^- particle and an (electron) antineutrino.
		$n \longrightarrow p + \beta^- + \bar{\nu}$
	(a)	the quark composition of the neutron to show that the neutron has no charge.

[3]

(b) Complete Fig. 8.1 by giving appropriate values of the charge and the mass of the proton, the β^- particle and the (electron) antineutrino.

	proton	β^- particle	antineutrino
charge			
mass			

Fig. 8.1

[2]

[Total: 5]