7 (a) Table 7.1 shows incomplete data for three flavours (types) of quark. The elementary charge is e

Table 7.1

flavour	quark		antiquark	
llavoui	symbol	charge/e	symbol	charge/e
up	u	+ $\frac{2}{3}$	ū	
down	d		d	
charm	С		c	

	Con	nplete Table 7.1 by inserting the missing charges. [2	2]			
(b)		Using the symbols given in Table 7.1, state a possible quark combination for the follow hadrons:				
	(i)	a neutral baryon				
		[1]			
	(ii)	a meson with a charge of +e.				
		[1]			
(c)	Qua	arks are fundamental particles.				
	Elec	Electrons are in another group (class) of fundamental particle.				
	(i)	State the name of this group.				
		[1]			
	(ii)	State the name of another particle in this group.				
		[1]			
		[Total: 6	3]			