98 a)	neutron is udd / proton is uud;		1	
	quarks are: up down strange top bottom charm;		1	
	either up / u has Q = (+)2/3, B = (+)1/3, S =0;			
	or down / d has $Q = -1/3$, $B = (+)1/3$, $S = 0$;		1	
	quarks are fundamental particles; (1)			
	for every quark there is an antiquark; (1)			
	antiquarks have opposite values of Q, B and S (compared to quark) (1)			
	quarks are held together by strong force / gluons (1)			
	Q, B and S are conserved in (quark) reactions (1)			
	any	2	2	[5]
(b)(i)	charge: $1 + (-1) -> 0 + 0 + (-1) + X_Q$ so $X_Q = (+)$)1	1	
	baryon number: $1 + 0 -> 1 + 0 + 0 + X_B$ so $X_B = 0$		1	
	strangeness: $0 + 0 -> 0 + 0 + 0 + X_S$ so $X_S = 0$		1	[3]
	if working not shown: 3 right gets 3/3, 2 right gets 1/3, 1 right gets 0/3			
	has NO strangeness gets 0/1 has NO baryon number gets 0/1			
(ii)	$\pi^{\!\scriptscriptstyle +}$ particle / antiparticle to $\pi^{\!\scriptscriptstyle -}/$ meson with quark composition of (up + not-down)		1	[1]
	do not allow positron			9