Question number		Answer	Notes	Marks
14	(a)	two protons labelled; two neutrons labelled;	ACCEPT: a proton and a neutron for 1 mark ACCEPT: correct labels inside circles	2
	(b) (i)	Any two of: to avoid / reduce absorption / ionisation / loss of energy of alpha particles; to avoid / reduce chance of collisions between air molecules and alpha particles; to allow sufficient range for alpha particles / would stop in few cm of air / does not reach foil;	ACCEPT: ideas of alpha particle absorption, collision and range expressed in other words IGNORE: speed of alpha particles	2
	(ii)	Any two of: electrostatic (force); repulsion; between like charges;	ACCEPT: electric (force) IGNORE: magnetic / poles	2