(ii) state ,.iij ale alpila ((a) State why the alpha source and gold foil were contained in a vacuum.			
			(1)	
(b) At that time, one model for the structure of atoms was the plum pudding model proposed by J J Thompson. In this model, the positive charge and mass were spread evenly throughout the atom. Negatively charged electrons were distributed within the atom.				
		ne alpha particle scatterin with a nuclear model of	• 1	

(Total for Question 15 = 7 marks)