	Explain how observations and measurements from the photograph can be used to	
	establish information about the lambda particle.	(6)
(b)	The lambda particle consists of up, down and strange quarks.	
	Explain how the conservation of charge, baryon number and lepton number apply to the decay of the lambda particle.	
		(3)
 (c)	Write an equation to represent the decay of the lambda (Λ) particle.	
(0)	write an equation to represent the decay of the famous (11) particle.	(1)
(d)	The rest mass of the lambda particle is $1115MeV/c^2$.	
	(i) Calculate this mass in kg.	(4)
		(3)
	Mass =	
	(ii) The rest mass of a proton is 940MeV/c^2 . The rest mass of a pion is 140MeV/c^2	2
	The kinetic energy of the lambda particle just before decay is 4.95 GeV.	
	Calculate the total kinetic energy of the proton and pion in MeV.	
		(3)