	(11)	US	sing Hubble's Law or otherwise explain now Olbers paradox can be resolved.
		•••	
			[3]
42		(2)	[Total: 8] Describe the events which occurred after the Big Bang up to the formation of the first atoms.
72		(a)	Describe the events which occurred after the big bang up to the formation of the first atoms.
			[5]

(b)	The Universe is assumed to be <i>isotropic</i> and <i>homogenous</i> . Explain the meaning of these two terms.				
	isotr	opic			
	hom	logenous			
		[2]			
(c)	One possible value for the critical density of the Universe is 3.8×10^{23} kg pc ⁻³ .				
	(i)	Assuming this density, what average volume of space would be required to contain a mass of 2×10^{30} kg, the mass of the Sun?			
		volume =pc ³ [2]			
	(ii)	Describe and explain how the Universe may evolve.			
		[5]			

[Total: 14]