1	(a)	are	an expression for work done, in terms of force, to show that the SI base units of enerkg $\mbox{m}^2\mbox{s}^{-2}.$	gy
				[2]
	(b)	(i)	The energy E stored in an electrical component is given by $E = \frac{Q^2}{2C}$	
			where Q is charge and C is a constant.	
			this equation and the information in (a) to determine the SI base units of C.	
			SI base units	[2]
		(ii)	Measurements of a constant current in a wire are taken using an analogue ammeter.	
			these measurements, describe one possible cause of:	
			1. a random error	
			2. a systematic error.	••••
				 [2]
			[Total:	6]