1	(a)	An analogue voltmeter is used to take measurements of a constant potential difference across a resistor.	
			these measurements, describe <b>one</b> example of
		(i)	a systematic error,
			[41]
		(ii)	a random error.
			[1]
	(b)		potential difference across a resistor is measured as $5.0\mathrm{V}\pm0.1\mathrm{V}$ . The resistor is labelled naving a resistance of $125\Omega\pm3\%$ .
		(i)	Calculate the power dissipated by the resistor.
			power = W [2]
		(ii)	Calculate the percentage uncertainty in the calculated power.
			percentage uncertainty = % [2]
		(iii)	Determine the value of the power, with its absolute uncertainty, to an appropriate number of significant figures.
			power = ± W [2]

[Total: 8]