Question		on	Answer		Max mark	Additional guidance
13.	(a)		V = IR 12 = $I \times 6800$ $I = 1.8 \times 10^{-3} A$	1 1 1	3	Sig figs: Accept 2, 1.76, 1.765
	(b)		The (circuit/total) resistance is less	1	2	Independent marks. Accept:
			Initial charging current is greater	1		Average current is greater OR The current at any given time is greater.
						'Current greater' on its own is not sufficient for 2 nd mark.
14.	(a)		Photovoltaic (effect)		1	
	(b)	(i)	I = 35 mA (from graph)	1	3	P = IV anywhere, 1 mark.
			$P = IV$ $(P = 0.035 \times 2.1)$	1		Sig figs: Accept 0.07, 0.0735
			P = 0.074 W	1		Accept a value for I between 34.5 and 35 mA inclusive.
						I = 34.5 mA gives P = 0.073 W
						Sig figs for above: Accept 0.07, 0.0725, 0.07245
		(ii)	Greater number of <u>photons</u> (stri the solar cell) <u>per second</u>	ke	1	The answer has to imply a 'rate'. Any correct statement followed by wrong physics, 0 marks.