

# G402: Electrons, Waves and Photons

Question			Required Answer	Mark	Marking Guidance
21					
	21	1	$2.4 \times 10^{-19} \text{ J}$ or $1.6 \times 10^{-19} \text{ J}$ $\times 1.5 \times 10^{-19} \text{ J}$	2.1	allow $1.6 \times 10^{-19} \text{ J}$ only
				2.2	accept 12000 J
	21	2	$2.4 \times 10^{-19} \text{ J}$ or $1.6 \times 10^{-19} \text{ J}$ or $1.6 \times 10^{-19} \text{ J}$ $\times 1.5 \times 10^{-19} \text{ J}$ and 2	2.1	allow 12000 J
				2.2	accept 12000 J
				2.3	allow 12000 J
	21	3	$2.4 \times 10^{-19} \text{ J}$ or $1.6 \times 10^{-19} \text{ J}$ $\times 1.5 \times 10^{-19} \text{ J}$	2.1	allow 12000 J
				2.2	accept 12000 J
	21	4	As enough electrons are emitted the current <u>increases</u> <u>and the beam</u> over time (or voltage) they will have more energy (or velocity) which gives them a greater deflection because they have a greater $\frac{1}{2}mv^2$ or $\frac{1}{2}mv^2$ or $\frac{1}{2}mv^2$	2.1	no marks for 'increases'
				2.2	allow 'more energy'
				2.3	allow 'more energy'
	21	5	$2.4 \times 10^{-19} \text{ J}$ or $1.6 \times 10^{-19} \text{ J}$ $\times 1.5 \times 10^{-19} \text{ J}$ or $1.6 \times 10^{-19} \text{ J}$ $\times 1.5 \times 10^{-19} \text{ J}$	2.1	allow 12000 J
				2.2	accept 12000 J
				2.3	allow 12000 J
	21	6	$2.4 \times 10^{-19} \text{ J}$ or $1.6 \times 10^{-19} \text{ J}$ $\times 1.5 \times 10^{-19} \text{ J}$	2.1	allow 12000 J
				2.2	accept 12000 J
				2.3	allow 12000 J

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**Colin Shephard, Rosemary Rees**



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