

# G402: Electrons, Waves and Photons

Question			Relevant Concepts	Mark	Marking Guidance
21					
	21	1	$h = 6.63 \times 10^{-34} \text{ J s}$ $\lambda = 1.1 \times 10^{-7} \text{ m}$	2.0	allow $6.63 \times 10^{-34} \text{ J s}$ accept $6.63 \times 10^{-34}$
	21	2	$h = 6.63 \times 10^{-34} \text{ J s}$ or $6.63 \times 10^{-34} \text{ J s}$ $\lambda = 1.1 \times 10^{-7} \text{ m}$ and 2	2.0 2.0 2.0	allow accept $6.63 \times 10^{-34} \text{ J s}$ allow $6.63 \times 10^{-34}$
		3	allow $6.63 \times 10^{-34} \text{ J s}$ $\lambda = 1.1 \times 10^{-7} \text{ m}$	2.0 2.0	allow accept $6.63 \times 10^{-34} \text{ J s}$ or $6.63 \times 10^{-34}$
	21	4	As enough electrons were emitted the maximum wavelength was not found or: (more energy than needed to free electrons) the velocity of the photo electrons is always the same or: (more energy than needed to free electrons) the velocity of the photo electrons is always the same	2.0 2.0 2.0	no marks for wrong answers allow three marks
		5	allow $6.63 \times 10^{-34} \text{ J s}$ $\lambda = 1.1 \times 10^{-7} \text{ m}$ or $\lambda = 1.1 \times 10^{-7} \text{ m}$ $\lambda = 1.1 \times 10^{-7} \text{ m}$	2.0 2.0 2.0	allow $6.63 \times 10^{-34} \text{ J s}$ allow $6.63 \times 10^{-34}$ allow $6.63 \times 10^{-34}$
		6	allow $6.63 \times 10^{-34} \text{ J s}$ $\lambda = 1.1 \times 10^{-7} \text{ m}$ or $\lambda = 1.1 \times 10^{-7} \text{ m}$ $\lambda = 1.1 \times 10^{-7} \text{ m}$	2.0 2.0 2.0	allow $6.63 \times 10^{-34} \text{ J s}$ allow $6.63 \times 10^{-34}$ allow $6.63 \times 10^{-34}$

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**Anthony S. Fauci**



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