Question 6 (6 marks)

The photoelectric effect equation is

$$\frac{1}{2}mv_{max}^2 = hf - W$$

The maximum kinetic energy of a liberated electron is equal to the difference between the energy of the incoming photon and the work function of the metal target.

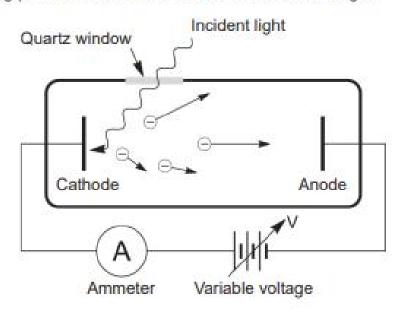


Figure 1: Photoelectrons are released from a metal target in a vacuum tube

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Discuss how determined.	the maximum kineti	c energy of the lib	erated electrons is ex	operimentall
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