
AQA A LEVEL PHYSICS PAPER 1

1. **What is meant by work function (2):** Minimum energy required by an electron to escape from (1) a metal surface (1)
2. **What is meant by ionisation energy? (2):** Minimum energy required to remove an electron from an atom (1) from the ground state (1)
3. **Why do emitted electrons have a kinetic energy that varies up to a maximum value? (4):** Energy of a photon is fixed/constant (1)
Energy is required for electrons to overcome work function ϕ (1)
Electrons deeper into/below the surface of the metal require more energy to overcome work function and therefore have less KE (1)
Maximum KE = Energy of photon - work function ϕ (1)
4. **Explain how (bright ring) diagram is evidence of the wave-particle duality of electrons?:** Diffraction pattern maxima/minima (bright and dark areas) (1) Diffraction is a property of waves- proves wave-behaviour of electrons (1)
5. **What is meant by the ground state?:** The lowest energy state of an atom
6. **Explain the difference between excitation and ionisation (2):** An electron receives a discrete amount of energy for BOTH (1)
Excitation promotes an electron to a higher energy level
Ionisation is when an electron receives enough energy to leave the atom
7. **Explain why only photons of certain frequencies cause excitation (4):** discrete energy levels (1)
Electrons need to absorb a DISCRETE amount of energy to move to a higher energy level (1)

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