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# **AQA a level physics paper 1 100% SOLUTIONS REVISED 2023//2024**

What is meant by work function (2) - ANSWER Minimum energy required by an electron to escape from (1) a metal surface (1)

What is meant by ionisation energy? (2) - ANSWER Minimum energy required to remove an electron from an atom (1) from the ground state (1)

Why do emitted electrons have a kinetic energy that varies up to a maximum value? (4)  
- ANSWER Energy of a photon is fixed/constant (1)  
Energy is required for electrons to overcome work function  $\phi$  (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  $\phi$  (1)

Explain how (bright ring) diagram is evidence of the wave-particle duality of electrons? - ANSWER Diffraction pattern maxima/minima (bright and dark areas) (1)  
Diffraction is a property of waves- proves wave-behaviour of electrons (1)

What is meant by the ground state? - ANSWER The lowest energy state of an atom

Explain the difference between excitation and ionisation (2) - ANSWER 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

# Aqa January Higher Physics 2013 Past Paper

**KJ Lindholm-Leary**



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