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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

# Higher Level Physics Paper November 23

**J Spring**



**Higher Level Physics Paper November 23:**

Higher Level Physics Paper November 23: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Higher Level Physics Paper November 23 : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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