
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 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)

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

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Jin-Ying Zhang



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Table of Contents Aqa January Higher Physics 2013 Mark Scheme

1. Understanding the eBook Aqa January Higher Physics 2013 Mark Scheme
 - The Rise of Digital Reading Aqa January Higher Physics 2013 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Aqa January Higher Physics 2013 Mark Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aqa January Higher Physics 2013 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa January Higher Physics 2013 Mark Scheme
 - Personalized Recommendations

- Aqa January Higher Physics 2013 Mark Scheme User Reviews and Ratings
- Aqa January Higher Physics 2013 Mark Scheme and Bestseller Lists
- 5. Accessing Aqa January Higher Physics 2013 Mark Scheme Free and Paid eBooks
 - Aqa January Higher Physics 2013 Mark Scheme Public Domain eBooks
 - Aqa January Higher Physics 2013 Mark Scheme eBook Subscription Services
 - Aqa January Higher Physics 2013 Mark Scheme Budget-Friendly Options
- 6. Navigating Aqa January Higher Physics 2013 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Aqa January Higher Physics 2013 Mark Scheme Compatibility with Devices
 - Aqa January Higher Physics 2013 Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aqa January Higher Physics 2013 Mark Scheme
 - Highlighting and Note-Taking Aqa January Higher Physics 2013 Mark Scheme
 - Interactive Elements Aqa January Higher Physics 2013 Mark Scheme
- 8. Staying Engaged with Aqa January Higher Physics 2013 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aqa January Higher Physics 2013 Mark Scheme
- 9. Balancing eBooks and Physical Books Aqa January Higher Physics 2013 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aqa January Higher Physics 2013 Mark Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aqa January Higher Physics 2013 Mark Scheme
 - Setting Reading Goals Aqa January Higher Physics 2013 Mark Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aqa January Higher Physics 2013 Mark Scheme
 - Fact-Checking eBook Content of Aqa January Higher Physics 2013 Mark Scheme

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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