
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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Table of Contents Physcs Paper 2 Exemplar 2014

1. Understanding the eBook Physcs Paper 2 Exemplar 2014
 - The Rise of Digital Reading Physcs Paper 2 Exemplar 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Physcs Paper 2 Exemplar 2014
 - 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 Physcs Paper 2 Exemplar 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physcs Paper 2 Exemplar 2014
 - Personalized Recommendations
 - Physcs Paper 2 Exemplar 2014 User Reviews and Ratings
 - Physcs Paper 2 Exemplar 2014 and Bestseller Lists
5. Accessing Physcs Paper 2 Exemplar 2014 Free and Paid eBooks
 - Physcs Paper 2 Exemplar 2014 Public Domain eBooks
 - Physcs Paper 2 Exemplar 2014 eBook Subscription Services

- Physcs Paper 2 Exemplar 2014 Budget-Friendly Options
- 6. Navigating Physcs Paper 2 Exemplar 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physcs Paper 2 Exemplar 2014 Compatibility with Devices
 - Physcs Paper 2 Exemplar 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physcs Paper 2 Exemplar 2014
 - Highlighting and Note-Taking Physcs Paper 2 Exemplar 2014
 - Interactive Elements Physcs Paper 2 Exemplar 2014
- 8. Staying Engaged with Physcs Paper 2 Exemplar 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physcs Paper 2 Exemplar 2014
- 9. Balancing eBooks and Physical Books Physcs Paper 2 Exemplar 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physcs Paper 2 Exemplar 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physcs Paper 2 Exemplar 2014
 - Setting Reading Goals Physcs Paper 2 Exemplar 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physcs Paper 2 Exemplar 2014
 - Fact-Checking eBook Content of Physcs Paper 2 Exemplar 2014
 - 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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