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IGCSE A* MODEL ANSWER

0625 PHYSICS

May/June 2023

Paper 23



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11 Which component forms part of a D.C. motor but not a simple moving coil a.c. generator?

- A the coil
- B the brushes
- C the magnet
- D a splitting commutator



12 A transformer has 5000 turns on the primary coil and 500 turns on the secondary coil.

The output of the secondary coil is 110 V a.c. and is connected to a heater. The transformer is 100% efficient.

$$P_s = P_{out} = 13200 \text{ W}$$

The heater produces a power of 13200 W.

What is the current in the primary coil?

- A 11 A
- B 1.1 A
- C 11 A
- D 12 A

$$\frac{V_p}{V_s} = \frac{N_p}{N_s} \quad \frac{V_p}{110} = \frac{5000}{500} \quad V_p = 1100 \text{ V}$$

$$P = I \times V \quad 13200 = I \times 1100 \quad I = \frac{13200}{1100} = 12 \text{ A}$$

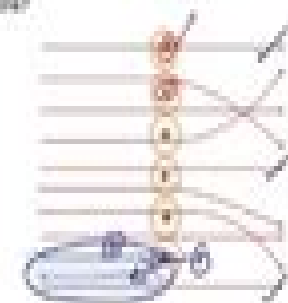
13 The scattering of alpha particles from a thin gold foil produces the following observations.

Calculate the percentage of alpha particles that are deflected through large angles.

- Most of the alpha particles pass through the foil.
- Most of the alpha particles are virtually undeflected.
- A small fraction of the alpha particles are deflected through large angles.
- A very small fraction of the alpha particles bounce back from the foil.

Which conclusion does not follow from these observations?

- A Most of the mass of the gold atom is in its nucleus.
- B Most of the atom is empty space.
- C The nucleus consists of protons and neutrons.
- D The nucleus must be charged.



14 A nuclide of chlorine has the symbol shown.



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Roman Wölfel

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Igcse Physics May June 2013 Past Paer

1. Understanding the eBook Igcse Physics May June 2013 Past Paer
 - The Rise of Digital Reading Igcse Physics May June 2013 Past Paer
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Physics May June 2013 Past Paer
 - 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 Igcse Physics May June 2013 Past Paer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Physics May June 2013 Past Paer
 - Personalized Recommendations
 - Igcse Physics May June 2013 Past Paer User Reviews and Ratings
 - Igcse Physics May June 2013 Past Paer and Bestseller Lists
5. Accessing Igcse Physics May June 2013 Past Paer Free and Paid eBooks
 - Igcse Physics May June 2013 Past Paer Public Domain eBooks
 - Igcse Physics May June 2013 Past Paer eBook Subscription Services
 - Igcse Physics May June 2013 Past Paer Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Igcse Physics May June 2013 Past Paer Compatibility with Devices
 - Igcse Physics May June 2013 Past Paer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Igcse Physics May June 2013 Past Paer
 - Highlighting and Note-Taking Igcse Physics May June 2013 Past Paer
 - Interactive Elements Igcse Physics May June 2013 Past Paer
8. Staying Engaged with Igcse Physics May June 2013 Past Paer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Igcse Physics May June 2013 Past Paer
9. Balancing eBooks and Physical Books Igcse Physics May June 2013 Past Paer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Igcse Physics May June 2013 Past Paer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Igcse Physics May June 2013 Past Paer
 - Setting Reading Goals Igcse Physics May June 2013 Past Paer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Igcse Physics May June 2013 Past Paer
 - Fact-Checking eBook Content of Igcse Physics May June 2013 Past Paer
 - 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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