

PHYSICAL SCIENCES

PAPER 1

MAY-JUNE

MEMO

2025



Figure 1: A circuit with a battery of EMF 12 V and internal resistance 1 Ω. The circuit is connected to a parallel combination of two branches. The first branch contains a 4 Ω resistor in series with a 2 Ω resistor. The second branch contains an ammeter A in series with a 10 Ω resistor. A voltmeter V₂ is connected in parallel across the 10 Ω resistor.

- 1.1 (4 marks)
- 1.1.1 Calculate the potential difference across the voltmeter V.
- 1.1.2 Calculate the current through the 10 Ω resistor.



- 2.1 (2 marks)
- 2.1.1 Calculate the magnitude of the force F.
- 2.1.2 Calculate the magnitude of the torque about the pivot.



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Table of Contents Physical Science Gradephysics 2012 June Exam Memo Limpopo

1. Understanding the eBook Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - The Rise of Digital Reading Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - 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 Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - Personalized Recommendations
 - Physical Science Gradephysics 2012 June Exam Memo Limpopo User Reviews and Ratings
 - Physical Science Gradephysics 2012 June Exam Memo Limpopo and Bestseller Lists
5. Accessing Physical Science Gradephysics 2012 June Exam Memo Limpopo Free and Paid eBooks
 - Physical Science Gradephysics 2012 June Exam Memo Limpopo Public Domain eBooks
 - Physical Science Gradephysics 2012 June Exam Memo Limpopo eBook Subscription Services
 - Physical Science Gradephysics 2012 June Exam Memo Limpopo Budget-Friendly Options
6. Navigating Physical Science Gradephysics 2012 June Exam Memo Limpopo eBook Formats

- ePub, PDF, MOBI, and More
 - Physical Science Gradephysics 2012 June Exam Memo Limpopo Compatibility with Devices
 - Physical Science Gradephysics 2012 June Exam Memo Limpopo Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - Highlighting and Note-Taking Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - Interactive Elements Physical Science Gradephysics 2012 June Exam Memo Limpopo
8. Staying Engaged with Physical Science Gradephysics 2012 June Exam Memo Limpopo
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Gradephysics 2012 June Exam Memo Limpopo
9. Balancing eBooks and Physical Books Physical Science Gradephysics 2012 June Exam Memo Limpopo
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Gradephysics 2012 June Exam Memo Limpopo
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Gradephysics 2012 June Exam Memo Limpopo
- Setting Reading Goals Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Gradephysics 2012 June Exam Memo Limpopo
- Fact-Checking eBook Content of Physical Science Gradephysics 2012 June Exam Memo Limpopo
 - 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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