

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025



Figure 6 is a circuit diagram used for Question 6. The voltmeter is connected across the battery.

1. (1 mark)  
State the meaning of EMF of a cell.  
Answer: EMF is the potential difference between the terminals of a cell when no current is drawn from it.



- 1.1 Draw a free-body diagram for the beam.
- 1.2 Calculate the magnitude of the force  $F$  required to keep the beam in equilibrium.



basic education

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REPUBLIC OF SOUTH AFRICA

# Physical Science Paper 2 November 2010 Memo

**Lingjun Ying**



## Physical Science Paper 2 November 2010 Memo:

**The Secure and the Dispossessed** Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures *Space Studies Board Annual Report 2010* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2011-01-01 The Space Studies Board SSB was established in 1958 to serve as the focus of the interests and responsibilities in space research for the National Academies The SSB provides an independent authoritative forum for information and advice on all aspects of space science and applications and it serves as the focal point within the National Academies for activities on space research It oversees advisory studies and program assessments facilitates international research coordination and promotes communications on space science and science policy between the research community the federal government and the interested public The SSB also serves as the U S National Committee for the International Council for Science Committee on Space Research COSPAR This volume reviews the organization activities and reports of the SSB for the year 2010 *Cybersecurity* Damien Van Puyvelde, Aaron F. Brantly, 2024-09-27 In the last decade the proliferation of billions of new Internet enabled devices and users has significantly expanded concerns about cybersecurity How much should we worry about cyber threats and their impact on our lives society and international affairs Are these security concerns real exaggerated or just poorly understood In this fully revised and updated second edition of their popular text Damien Van Puyvelde and Aaron F Brantly provide a cutting edge introduction to the key concepts controversies and policy debates in cybersecurity today Exploring the interactions of individuals groups and states in cyberspace and the integrated security risks to which these give rise they examine cyberspace as a complex socio technical economic domain that fosters both great potential and peril Across its ten chapters the book explores the complexities and challenges of cybersecurity using new case studies such as NotPetya and Colonial Pipeline to highlight the evolution of attacks that can exploit and damage individual systems and critical infrastructures This edition also includes reader's guides and active learning exercises in addition to questions for group discussion Cybersecurity is essential reading for anyone interested in understanding the challenges and opportunities presented by the continued expansion of cyberspace Renewable Energy

Sources and Climate Change Mitigation Ottmar Edenhofer,Ramón Pichs-Madruga,Youba Sokona,Kristin Seyboth,Susanne Kadner,Timm Zwickel,Patrick Eickemeier,Gerrit Hansen,Steffen Schlömer,Christoph von Stechow,Patrick Matschoss,2011-11-21 This Intergovernmental Panel on Climate Change Special Report IPCC SRREN assesses the potential role of renewable energy in the mitigation of climate change It covers the six most important renewable energy sources bioenergy solar geothermal hydropower ocean and wind energy as well as their integration into present and future energy systems It considers the environmental and social consequences associated with the deployment of these technologies and presents strategies to overcome technical as well as non technical obstacles to their application and diffusion SRREN brings a broad spectrum of technology specific experts together with scientists studying energy systems as a whole Prepared following strict IPCC procedures it presents an impartial assessment of the current state of knowledge it is policy relevant but not policy prescriptive SRREN is an invaluable assessment of the potential role of renewable energy for the mitigation of climate change for policymakers the private sector and academic researchers **UNEP Year Book 2010** Unep,2010-04-22 The UNEP Year Book 2010 is essential informative and authoritative reading and reports on new environmental science plus recent developments in our changing environment It looks at progress in environmental governance the effects of continuing degradation and loss of the world s ecosystems impacts of climate change how harmful substances and hazardous waste effect human health and the environment environmentally related disasters and conflicts and unsustainable use of resources Water is a recurrent theme in this seventh edition Each chapter considers water related environmental changes together with a number of challenges and opportunities **UGC NET Political Science Paper II Chapter Wise Note Book | Complete Preparation Guide** EduGorilla Prep Experts,2022-09-15 Best Selling Book in English Edition for UGC NET Political Science Paper II Exam with objective type questions as per the latest syllabus given by the NTA Increase your chances of selection by 16X UGC NET Political Science Paper II Kit comes with well structured Content Chapter wise Practice Tests for your self evaluation Clear exam with good grades using thoroughly Researched Content by experts

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