

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025



Figure 1 is a circuit diagram used for Question 1. The voltmeter is connected in parallel with the battery.

1.1 (1 mark)  
State the purpose of the voltmeter in the circuit diagram.

Answer: To measure the EMF of the cell when the switch is open.



- 2.1 (1 mark)  
Calculate the magnitude of the force F.
- 2.2 (2 marks)  
Calculate the magnitude of the torque of the force F about the pivot.



basic education

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REPUBLIC OF SOUTH AFRICA

# Memo November 2013 Physical Science Paper 1

**L Reisser**



## **Memo November 2013 Physical Science Paper 1:**

**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

**Professional Journal of the United States Army**, 2015 Military Review, 2015 *Vibrio ecology, pathogenesis and evolution* Rita R Colwell, Daniela Ceccarelli, 2014-10-24 Vibrios are Gram negative bacilli that occur naturally in marine estuarine and freshwater systems Some species include human and animal pathogens capable of causing gastroenteritis wound infections cholera and fatal septicemia Over the past decades cutting edge research on Vibrio genomics has promoted a tremendous advance in our knowledge of these pathogens Significant developments include the discovery of emerging epidemic clones tracking the spread of new strain variants and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread as well as pathogenesis Furthermore improved understanding of the interaction of Vibrios with a variety of living organisms in the aquatic environment has documented the significant role of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter epidemic periods and enhancing disease transmission This Research Topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of Vibrios ecology and evolution and will suggest the pathway of future research in this field

**ICEL2015-10th International Conference on e-Learning** Dr Carlton Watson, 2015-06-12 These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25-26 June 2015 ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in the area of e Learning It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of e Learning available to them With an initial submission of 91 abstracts after the double blind peer review process there are 41 academic Research papers and 2 PhD papers Research papers published in these Conference Proceedings These papers come from some many different countries including Australia Belgium Brazil Canada China

Germany Greece Hong Kong Malaysia Portugal Republic of Macedonia Romania Slovakia South Africa Sweden United Arab Emirates UK and the USA A selection of the best papers those agreed by a panel of reviewers and the editor will be published in a conference edition of EJEL the Electronic Journal of e Learning [www.ejel.com](http://www.ejel.com) These will be chosen for their quality of writing and relevance to the Journal's objective of publishing papers that offer new insights or practical help into the application e Learning

**Research Report NIFS-PROC Series**, 2016-07 **Dynamic Industrial Policy in Africa** United Nations. Economic Commission for Africa, 2014 For millions of Africans growth is yet to translate into jobs and better living conditions Africa's largely commodity driven growth has not been matched by the much needed structural change that can lead to economic transformation employment and reduced poverty Market failures necessitate industrial policy interventions Yet in the absence of the right processes and institutions good industrial policies will fail Indeed weak institutions and poor policy design have hindered industrial policy This report gives a framework for getting the policy process right to foster industrialization It uses 11 country case studies to assess the critical ingredients for spurring industrialization innovative institutions effective processes and flexible mechanisms and structural transformation **21st Century Homestead: Sustainable Agriculture II: Farming and Natural Resources** Marlon Henkel, 2015-02-22 21st Century Homestead Sustainable Agriculture II contains the second part of everything you need to stay up to date on sustainable agriculture farming and natural resources [Beyond Control](#) James F. Barnett Jr., 2017-03-16 Beyond Control reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country's largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico Beyond Control traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi's move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi River's impending diversion the book's chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty first century **Parliamentary Debates** India. Parliament. Rajya Sabha, 2016-12 **Annual**

**Report** Institut Penyelidikan Perhutanan Malaysia,2013      CERN Courier ,2013      **Eagle Over the Ice** Christopher C. Joyner,Ethel R. Theis,1997 An examination of international governance of the Antarctic continent one of the few success stories of international cooperation as viewed through the lens of US politics      **Proceedings of the United States Naval Institute** United States Naval Institute,2014-07      Turning Promises Into Action ,2018 More than two years into the life of the 2030 Agenda for Sustainable Development this report calls for dramatic advances in statistics financing and policies for gender equality as well as more determined steps towards democratic governance and accountability Based on robust data and expert analysis the report takes stock of where we stand on key aspects of gender equality globally tells us what is needed to monitor progress meaningfully and provides wideranging recommendations for change      Yearbook of International Organizations 2013-2014 (Volumes 1a-1b) Union Of International Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events      **Colorado Revised Statutes** Colorado,2012      **Pacific International Conference on Aerospace Science and Technology** ,1994      *The Stationery Office Annual Catalogue* Stationery Office (Great Britain),2013      The Zoological Record ,2003

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