

# 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 (4 marks)  
State the meaning of potential difference across a component.  
Answer: The difference in potential energy per unit charge between two points in the circuit.



- 1.1 (4 marks)  
1.2 (4 marks)  
1.3 (4 marks)  
1.4 (4 marks)  
1.5 (4 marks)  
1.6 (4 marks)  
1.7 (4 marks)  
1.8 (4 marks)  
1.9 (4 marks)  
1.10 (4 marks)  
1.11 (4 marks)  
1.12 (4 marks)  
1.13 (4 marks)  
1.14 (4 marks)  
1.15 (4 marks)  
1.16 (4 marks)  
1.17 (4 marks)  
1.18 (4 marks)  
1.19 (4 marks)  
1.20 (4 marks)



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# Memo November 2013 Physical Science

**Sir Norman Lockyer**



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

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 *Exploring the Northern Rocky Mountains* Colin Arthur Shaw, Basil Tikoff, 2014-05-01 The field trips in this guidebook are associated with the GSA Rocky Mountain Cordilleran Joint Section Meeting which will take place in Bozeman Montana in May 2014 *United States of America Congressional Record, Proceedings and Debates of the 113th Congress Second Session Volume 160 - Part 6* , 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 **The United States Government Manual 2013** Office of the Federal Register (U S ), Office of the Federal Register (U.S.) Staff, 2013-10-19 NOTE NO FURTHER DISCOUNTS ON THIS ITEM OVERSTOCK SALE Significantly reduced list price while supplies last The US Government Manual is known as the Official handbook of the Federal Government This annual resource provides comprehensive information on the agencies of the legislative judicial and executive branches as well as quasi official agencies international organizations in which the United States participates boards commissions and committees Each agency's description consists of a list of principal officials a summary statement of

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systems are aimed at collecting storing and analysing communication data including content location and other metadata on a massive scale In several countries a massive surveillance industrial complex has evolved which risks escaping democratic control and accountability and threatens the free and open character of our societies The surveillance practices disclosed endanger fundamental human rights including the rights to privacy freedom of information and expression and the rights to a fair trial and freedom of religion Given the threat such surveillance techniques pose how can states uphold these fundamental rights and ensure the protection of privacy and Internet safety in the digital age This book presents in its first part the report of the Parliamentary Assembly of the Council of Europe and in its second part the legal expertise of the European Commission for Democracy through Law the Venice Commission     Twenty Years of Managing Change CAUSE (Association). Conference,1992     **Nature** Sir Norman Lockyer,1886

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