

PHYSICAL SCIENCES

PAPER 1

MAY-JUNE

MEMO

2025

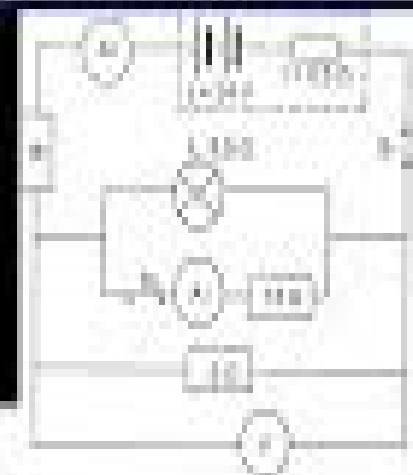
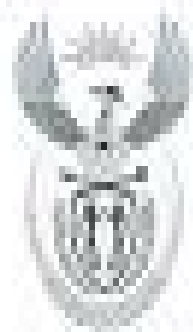
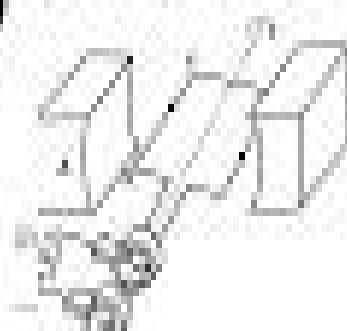


Figure 8 is a circuit diagram used for Question 8. The circuit is connected with the switch S closed.

1. (4 marks)
- 8.1 Calculate the potential difference across the 12 Ω resistor.
- 8.2 Calculate the current through the 6 V lamp.



9. (4 marks)
- 9.1 Calculate the magnitude of the force F.
- 9.2 Calculate the magnitude of the reaction force at the pivot.



basic education

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14 November Physical Science Paper Memo

Gary E. Weir



14 November Physical Science Paper Memo:

NASA Technical Memorandum ,1986 *An Ocean in Common* Gary E. Weir,2001 Through two victorious world conflicts and a Cold War the U S Navy and American ocean scientists drew ever closer converting an early marriage of necessity into a relationship of astonishing achievement Beginning in 1919 Gary Weir s *An Ocean in Common* traces the first forty two years of their joint quest to understand each other and the deep ocean Early in the twentieth century American naval officers questioned the tactical and strategic significance of applied ocean science demonstrating the gap between this kind of knowledge and that deemed critical to naval warfare At the same time scientists studying the ocean labored in their inadequately funded discreet disciplines seemingly content to keep naval warfare at arm s length German U boat success in World War I changed these views fundamentally bringing ocean science insights to an increasing number of naval objectives Driven primarily by anti submarine priorities the physics chemistry and geology of the ocean more than its biology became the early focus of American ocean studies The World War II experience solidified the Navy s relationship with ocean scientists and the years after 1945 found the American military investing heavily in both applied and basic research Today oceanography is a permanent resident on the bridge of American fighting ships and the Navy continues to provide much of the impetus and funding for fundamental research in both naval and civilian laboratories In *An Ocean in Common* Gary Weir focuses on the compelling motives and carefully engineered course that brought scientists and naval officers together across a considerable cultural divide to achieve a more comprehensive understanding of one another and the world ocean Weir details how this alliance laid the powerful multidisciplinary foundation for long range ocean communication and surveillance modern submarine warfare deep submergence and the emergence of oceanography and ocean engineering as independent and vital fields of study **Federal Register** ,1983-12-27 Historical Studies in the Physical Sciences Russell McCormmach,1982 *How We Teach Science* John L. Rudolph,2019-06-01 Despite an enduring belief that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process John Rudolph shows that how we think about and teach science will either sustain or thwart future innovation and determine how science is perceived by the public James B. Conant James G. Hershberg,1995 James B Conant 1893 1978 was one of the giants of the American establishment in the twentieth century President of Harvard University from 1933 to 1953 he was also a scientist who led the US government s effort to develop weapons of mass destruction and his story mirrors the transition of the United States from isolationism to global superpower at the dawn of the nuclear age This splendid portrait of Conant illuminates the life of a pivotal figure in the making of US nuclear scientific educational and foreign policy for almost half a century But the book is much more it is not only an insightful narration of Conant s life it is also a brilliant and important account of the making of the nuclear age a chronicle that contains much that is new TheWashington Post The bomb would be as much Conant s as it was anyone s in government His inner response to that

burden of responsibility has long been obscured but it is illumined here This is a model of historiography that is evocative reading The New York Times Book Review Vibrantly written and compelling it breaches Conant s shield of public discretion in masterly fashion *Notices of Changes in Classification, Distribution and Availability* ,1978 Science, Cold War and the American State Allan A. Needell,2013-02-01 This book illuminates how Berkner became a model that produced the scientist advisor policymaker that helped build post war America It does so by providing a detailed account of the personal and professional beliefs of one of the most influential figures in the American scientific community a figure that helped define the political and social climates that existed in the United States during the Cold War British University Observatories, 1772-1939 Roger Hutchins,2008 This is the first full history of the six university observatories that undertook research before World War II Oxford Dunsink Cambridge Durham Glasgow and London and their struggle to evolve in the middle ground between the royal or government observatories and those of the Grand Amateurs The book will intrigue anyone interested in the history of astronomy of telescopes of patronage networks of scientific institutions and of the history of universities

Proceedings of the Natural Science Association of Staten Island ,1896

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