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Department: Education PROVINCE OF KWAZULU-NATAL

PHYSICAL SCIENCES: (PHYSICS) P1

PREPARATORY EXAMINATION

SEPTEMBER 2017

NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

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TIME : 3 hours

This question paper consists of 15 pages and a 3-page data sheet.

# **Physical Science Paper 1 September 2013**

**B** Lingard

#### **Physical Science Paper 1 September 2013:**

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 expanse 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 Science Fix Climate Change? Mike Hulme, 2014-06-04 Climate change seems to be an insurmountable problem Political solutions have so far had little impact Some scientists are now advocating the so called Plan B a more direct way of reducing the rate of future warming by reflecting more sunlight back to space creating a thermostat in the sky In this book Mike Hulme argues against this kind of hubristic techno fix Drawing upon a distinguished career studying the science politics and ethics of climate change he shows why using science to fix the global climate is undesirable ungovernable and unattainable Science and technology should instead serve the more pragmatic goals of increasing societal resilience to weather risks improving regional air quality and driving forward an energy technology transition Seeking to reset the planet s thermostat is The Age of Scientific Naturalism Bernard Lightman, Michael S. Reidy, 2016-02-19 Physicist John not the answer Tyndall and his contemporaries were at the forefront of developing the cosmology of scientific naturalism during the Victorian period They rejected all but physical laws as having any impact on the operations of human life and the universe Contributors focus on the way Tyndall and his correspondents developed their ideas through letters periodicals and scientific journals and challenge previously held assumptions about who gained authority and how they attained and defended their position within the scientific community The End of Doom Ronald Bailey, 2015-07-21 In the past five decades there have been many many forecasts of impending environmental doom They have universally been proven wrong Meanwhile those who have bet on human resourcefulness have almost always been correct In his widely praised book Ecoscam Ronald Bailey strongly countered environmentalist alarmism using facts to demonstrate just how wildly overstated many claims of impending ecological doom really were Now twenty years later the Reason Magazine science correspondent is back to assess the future of humanity and the global biosphere Bailey finds contrary to popular belief that many present ecological trends are quite positive Including Falling cancer incidence rates in the United States The likelihood of a declining world population by mid century The abundant return of agricultural land to nature as the world reaches peak farmland A proven link between

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and adaptation to agricultural drought The book also addresses the gender response in the hardship of drought in the rural areas It also elicits the local and indigenous methods of drought prediction and sustainable cultivation and management of drought in agriculture Climate Change and Adaptation Planning for Ports Adolf K. Y. Ng, Austin Becker, Stephen Cahoon, Shu-Ling Chen, Paul Earl, Zaili Yang, 2015-08-14 As key links in transportation and supply chains the effect of climate change on seaports has broad implications for the development prospects of the global economy However the picture is very uncertain because the impacts of climate change will be felt very differently around the world both positively and negatively This book addresses the need for quality theoretical analysis highly innovative assessment methodologies and insightful empirical global experiences so as to identify the best international practices planning and appropriate policies to effectively adapt to develop resilience and indeed benefit from the impacts posed by climate change on transportation and supply chains This book comprises of theories methodologies and case studies from five continents Asia Europe Latin America North America and Oceania addressing climate change and the adaptation planning of ports and transportation infrastructures With reputable contributors from academic policymaking and professional sectors it critically analyses the recent attempts by ports in establishing adaptation plans and strategies so to enhance ports and other transportation infrastructures resilience to the climate change risks This is the first book of its kind to focus on climate change adaptation for ports It offers useful and comprehensive guidance to senior policymakers industrial practitioners and researchers who are eager to understand the dynamics between climate change adaptation planning of ports and transportation infrastructures Politics of the Arctic Leif Christian Jensen, Geir Hønneland, 2015-09-25 The Arctic has again become one of the leading issues on the international foreign policy agenda in a manner unseen since the Cold War Drawing on the perspectives of geo politics and international law this Handbook offers fresh insights and perspectives on the most pressing issues grouped under the headings of political ascendancy climate and environmental issues resources and energy and the response and policies of affected countries Offshore Drilling Platforms JOB INTERVIEW Petrogav International Oil & Gas Training Center, 2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS 205 web addresses to recruitment companies where you may apply for a job This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry Training for job interview Offshore Drilling **Platforms** Petrogav International Oil & Gas Training Center, 2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the

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