

- Answer ALL the questions in the same handwriting.
- Non-programmable calculators may be used.
- Appropriate mathematical instruments may be used.
- Round off your final numerical answers to a minimum of two decimal places.
- Give detailed reasons, discussions, if asked where needed.
- Write neatly and legibly.

Learner's Name

Learner's Surname

Grade

Page 1 of 5

The following are represented by A, B and C:
 A) Amplitude, wavelength, wave length
 B) Crest, trough, wavelength
 C) Amplitude, wavelength, pulse length
 D) Crest, trough, wavelength

[2 Marks]

1.5. The diagram below shows two points A and B on a wave.



Page 2 of 5

Physical Sciences – Paper 1 (Physical)

How many wavelengths separate point A and B?

- A) 1,25 B) 1 C) 1,5 D) 3

[2 Marks]

1.6. Devices are sometimes placed under the hulls of a boat's hulls. This equipment sends the following wave...

- A) X-ray B) Infrared light C) Ultrasound D) Ultra violet light

[2 Marks]

1.7. The following are an example of electromagnetic waves.

- A) Microwaves, visible light, X-rays
 B) X-rays, visible light, microwaves
 C) Microwaves, X-rays, visible light

Physical Sciences – Paper 1 (Physical)

2.2. Identify TWO points in the graph at which the particles would be moving in the same direction.

[2 Marks]

2.3. Which point has the maximum displacement?

[1 Mark]

Calculate

2.4. The frequency of the wave produced

[2 Marks]

2.5. The wavelength of the wave produced

[1 Mark]

Physical Science Paper 1 March 2013

Mike Hulme



Physical Science Paper 1 March 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 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 Can 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 not the answer This Changes Everything Naomi Klein, 2015-08-04 Explains why the environmental crisis should lead to an abandonment of free market ideologies and current political systems arguing that a massive reduction of greenhouse emissions may offer a best chance for correcting problems **General Studies & CSAT** YCT Expert Team , 2023 UPPCS Pre General Studies CSAT Solved Papers 2021-22 UPPCS General Studies & C-SAT YCT Expert Team, 2021-22 UPPCS General Studies C SAT Previous Solved Papers **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 increases in national wealth and reductions in air and water pollution Global warming is a problem but

the cost of clean energy could soon fall below that of fossil fuels In *The End of Doom* Bailey avoids polemics and offers a balanced fact based and ultimately hopeful perspective on our current environmental situation Now isn't that a breath of fresh air , *What We Think About When We Try Not To Think About Global Warming* Per Espen Stoknes, 2015 Today about 98 percent of scientists affirm that climate change is human made and about 2 percent still question it Despite that overwhelming majority though about half the population of rich countries like ours choose to believe the 2 percent And paradoxically this large camp of deniers grows even larger as more and more alarming proof of climate change has cropped up over the last decades This disconnect has both climate scientists and activists scratching their heads growing anxious and responding usually by repeating more facts to win the argument But the more climate facts pile up the greater the resistance to them grows and the harder it becomes to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead Is humanity up to the task It is a catch 22 that starts says psychologist and climate expert Per Espen Stoknes from an inadequate understanding of the way most humans think act and live in the world around them With dozens of examples he shows how to retell the story of climate change and apply communication strategies more fit for the task Publisher's description **Changing Climate Politics** Yael Wolinsky-Nahmias, 2014-02-25 *Changing Climate Politics* provides a comprehensive account of the current state of government action and political participation in the United States on the issue of climate change Author Yael Wolinsky Nahmias evaluates the role of the federal government the courts states and cities in tackling the problems created by climate change offering an inclusive and balanced assessment of progress and challenges The book further explores the growing role of civic society in climate action plans analyzing public opinion the U S climate movement policy making through ballot measures consumer action and the prospect of a social transformation toward a more sustainable society This timely volume examines new approaches to policies and civic action on climate change addressing critical questions about the responsibilities and obligations of governments and citizens

Responsible Conduct of Research Adil E. Shamoo, David B. Resnik, 2014-12-01 The third and fully updated edition concerning the latest issues and debates concerning Responsible Conduct of Research complete with case studies and end of chapter problem sets *The Chemical News and Journal of Physical Science* , 1902 *100 questions and answers for job interview Offshore Drilling Platforms* PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the drilling of an oil gas wells that will help you to be prepared for job interview at oil gas companies From start to finish you'll see a general prognosis of the drilling process If you are new to the oil gas industry you'll enjoy having a leg up with the knowledge of these processes If you are a seasoned oil gas person you'll enjoy reading what you may or may not know in these pages This course provides a non technical overview of the phases operations and terminology used on offshore drilling platforms It is intended also for non drilling personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental

professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations

Sea Level Variability and Change Ivan D. Haigh,Marta Marcos,Sönke Dangendorf,Francisco Calafat,2017-04-27 In June 2015 we held a workshop on the beautiful island of Mallorca Spain with a focus on sea level variability and change Over 120 sea level experts from around the world attended this workshop from a range of different disciplines The main aims of the workshop were to 1 Evaluate the current state of knowledge of sea level science 2 Identify gaps and unresolved questions in any aspect of sea level science and 3 Design future research to address these issue All aspects of sea level changes were covered from global to regional observations and modelling processes driving mean sea level changes and extremes from the geological scale to the instrumental era and future projections and including impacts on the coastal zones This E Book presents papers that came out of that workshop Overall these papers illustrate the multi disciplinary nature of sea level research cross cutting many fields of research including oceanography meteorology geology coastal morphodynamics engineering and the social economic aspects Collectively theses articles represent an interesting range of perspectives and original studies that contribute to understanding the dynamic nature of sea level and its impacts across a wide range of time and space scales Enjoy reading them

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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 272 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process 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 **A Liberal Actor in a Realist World** Andreas Goldthau,Nick Sitter,2015-08-13

Since 1992 the European Union has put liberalisation at the core of its energy policy agenda This aspiration was very much in line with an international political economy driven by the neo liberal Washington consensus The central challenge for the EU is that the energy world has changed while the EU has not The rise of Asian energy consumers China and India more assertive energy producers Russia and the threat of climate change have securitized the IPE of energy and turned it more realist The main research question is therefore What does a liberal actor do in a realist world The overall answer as far as the EU is concerned is that it approaches energy challenges as a problem of market failure imperfect competition on the supply side inadequate supply of public goods on the demand side and in terms of infrastructure and large externalities that arise both from non energy events and from large scale consumption of fossil fuels A Liberal Actor in a Realist World assesses the changing nature of the global political economy of energy and the European Union s response and the external dimension of the regulatory state The book concludes that the EU s soft power has a hard edge which is derived primarily from its regulatory power This works best when it targets companies rather than governments and it is more effective in the Near Abroad than at the global level This makes the EU emerge an actor in its own right in the global political economy of energy a Regulatory Power Europe **An Introduction to the Green Economy** Adrian C. Newton,Elena Cantarello,2014-08-13

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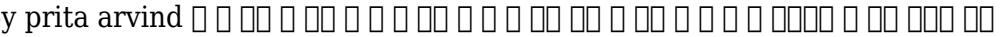

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