

GRADE 11 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.6) on your folio paper. Example 1.7, D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A. A heavy object has more mass.
B. A heavy object has more weight.
C. A heavy object has more volume.
D. The heavy object has a smaller acceleration.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A heavy object is falling freely.
B. A heavy object is falling with a constant downward acceleration.
C. A heavy object is falling with a constant downward velocity.
D. A heavy object is falling with a constant upward acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is falling freely with a constant downward acceleration.
B. An object is falling with a constant downward velocity.
C. An object is falling with a constant downward acceleration.
D. An object is falling with a constant downward velocity.
- 1.4 The inertia of an object...
- A. is a measure of its mass.
B. is a measure of its weight.
C. is a measure of its volume.
D. is a measure of its density.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (F_g) on the

surface of the Earth?

- A. $2r$
B. r
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too big.
D. The box is too small.

[14]

QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- 2.1 Draw the force diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° to the vertical.



Calculate the **MAGNITUDE** of the:

- 2.2.1 Resultant components of P and Q horizontally. (4)
2.2.2 Resultant components of P and Q vertically. (4)
2.2.3 Resultant of the horizontal components. (5)
2.2.4 Resultant of the vertical components. (5)
2.2.5 Resultant of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

Physical Science March 2013 Question Paper

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Physical Science March 2013 Question Paper:

Federal Register, 2013-03 **Hydrometeorology** Kevin Sene, 2015-12-09 This second edition explores some of the latest techniques used to provide forecasts for a wide range of water related applications in areas such as floods droughts water resources and environmental impacts The practical uses can range from decisions on whether to issue a flood warning through to providing longer term advice such as on when to plant and harvest crops or how to operate reservoirs for water supply and hydropower schemes It provides an introduction to the topic for practitioners and researchers and useful background for courses in areas such as civil engineering water resources meteorology and hydrology As in the first edition the first section considers topics such as monitoring and forecasting techniques demand forecasting and how forecasts are interpreted when issuing warnings or advice Separate chapters are now included for meteorological and catchment monitoring techniques allowing a more in depth discussion of topics such as weather radar and water quality observations The chapters on meteorological and hydrological forecasting now include a greater emphasis on rainfall forecasting and ensemble and probabilistic techniques Regarding the interpretation of forecasts an updated chapter discusses topics such as approaches to issuing warnings and the use of decision support systems and risk based techniques Given the rapid pace of development in flash flood forecasting techniques flash floods and slower responding riverine floods are now considered in separate chapters This includes more detail on forecasting floods in large river basins and on methods for providing early warnings of debris flows surface water flooding and ice jam and dam break floods Later chapters now include more information on developing areas such as environmental modelling and seasonal flow forecasting As before examples of operational systems are provided throughout and the extensive sets of references which were a feature of the first edition have been revised and updated Key themes floods droughts meteorological observations catchment monitoring meteorological forecasts hydrological forecasts demand forecasts reservoirs water resources water quality decision support data assimilation probabilistic forecasts Kevin Sene is a civil engineer and researcher with wide experience in flood risk management water resources and hydrometeorology He has previously published books on flood warning forecasting and emergency response and flash floods Springer 2008 2013 **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 will see a general prognosis of the drilling process If you are new to the oil gas industry you will enjoy having a leg up with the knowledge of these processes If you are a seasoned oil gas person you will 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

Questions and answers for job interview Offshore Drillings Rigs Petrogav International Oil & Gas Training Center, 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 270 questions and answers for job interview and as a BONUS 287 links to video movies 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 **Job**

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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 200 questions and answers for job interview and as a BONUS web addresses to 200 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 *Drones and the Future of Air Warfare* Michael P. Kreuzer,2016-05-26

This book examines the evolution of airpower and specifically the growth and proliferation of Remotely Piloted Aircraft RPAs While most existing literature examines either the law or ethics of RPAs and some newer scholarship looks to the battlefield effectiveness the gains from strikes versus the potential for blowback etc this work investigates it from a broader military perspective It examines the strategy for employment of RPAs across the spectrum of warfare the potential deterrent value of RPAs in some circumstances and the resulting ability of RPAs to fundamentally shift the character of when and how wars are fought The central aim of this book is to evaluate the role of drones in warfare to date and make basic projections on how states will adopt RPAs and UCAVs in the future At the core is the goal of answering a broad underlying research question How will the RPA innovation impact military strategy and international security This book will be of much interest to students of airpower drone warfare military and strategic studies security studies and IR **The Long Hedge** Jason

West,2017-09-08 Part of the Greenleaf Publishing Responsible Investment Series Mitigating and adapting to risks and changing circumstances is a natural part of doing business But methods of mitigating and adapting can be quite different in terms of time cost and observed impacts The impacts of mitigation activities are more immediate while the benefits of adaptation activities may take many years to take effect Nowhere is this difference more apparent than in the case of the corporate response to climate change In the context of climate change adaptation is the process of changing behaviour in response to actual or expected climate change impacts Climate change adaptation is now emerging as a critical partner to mitigation and indeed may even become the primary protection mechanism for future generations In this unique book Jason West provides a comprehensive assessment of the management of climate change adaptation in the corporate sector The book provides a formal overview of the range of approaches available along with a series of practical case studies and examples that can be used by companies and other organizations to identify assess and manage climate change adaptation A major focus is on the financial and investment implications of climate change adaptation West examines how firms can evaluate the investment decisions associated with long term climate change adaptation measures including how such investments can be valued and funded the appropriate accounting treatment of such measures and appropriate risk management and governance practices in relation to such measures The book also considers the needs and interests of investors and other stakeholders and considers how they can assess the adequacy and appropriateness of corporate action on

climate change The Long Hedge will be essential reading and a key text for risk practitioners investors financiers scholars and policy makers in the field of climate change Atoll Island States and International Law Lilian Yamamoto, Miguel Esteban, 2013-10-25 Atoll Island States exist on top of what is perceived to be one of the planet's most vulnerable ecosystems atolls It has been predicted that an increase in the pace of sea level rise brought about by increasing greenhouse gas concentrations in the atmosphere will cause them to disappear forcing their inhabitants to migrate The present book represents a multidisciplinary legal and engineering perspective on this problem challenging some common misconceptions regarding atolls and their vulnerability to sea level rise Coral islands have survived past changes in sea levels and it is the survival of coral reefs what will be crucial for their continued existence These islands are important for their inhabitants as they represent not only their ancestral agricultural lands and heritage but also a source of revenue through the exploitation of the maritime areas associated with them However even if faced with extreme climate change it could theoretically be possible for the richer Atoll Island States to engineer ways to prevent their main islands from disappearing though sadly not all will have the required financial resources to do so As islands become progressively uninhabitable their residents will be forced to settle in foreign lands and could become stateless if the Atoll Island State ceases to be recognized as a sovereign country However rather than tackling this problem by entering into lengthy negotiations over new treaties more practical solutions encompassing bilateral negotiations or the possibility of acquiring small new territories should be explored This would make it possible for Atoll Island States in the future to keep some sort of international sovereign personality which could benefit the descendants of its present day inhabitants *Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles* National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light duty vehicle fleet is expected to undergo substantial technological changes over the next several decades New powertrain designs alternative fuels advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards By the end of the next decade cars and light duty trucks will be more fuel efficient weigh less emit less air pollutants have more safety features and will be more expensive to purchase relative to current vehicles Though the gasoline powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030 such vehicles will be equipped with advanced technologies materials electronics and controls and aerodynamics And by 2030 the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation including autonomous vehicles will be well underway What are these new technologies how will they work and will some technologies be more effective than others Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration NHTSA and Environmental Protection Agency EPA Corporate Average Fuel Economy CAFE and greenhouse gas GHG emission standards

this new report from the National Research Council is a technical evaluation of costs benefits and implementation issues of fuel reduction technologies for next generation light duty vehicles Cost Effectiveness and Deployment of Fuel Economy Technologies for Light Duty Vehicles estimates the cost potential efficiency improvements and barriers to commercial deployment of technologies that might be employed from 2020 to 2030 This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017 2025 CAFE standards

An Introduction to the Green Economy Adrian C. Newton,Elena Cantarello,2014-08-13 The green economy is widely seen as a potential solution to current global economic and environmental crises and a potential mechanism by which sustainable development might be achieved in practice Considerable investments are now being made into the development of green technology renewable energy biodiversity conservation resource efficiency recycling of materials and green infrastructure This textbook provides a comprehensive introduction to the green economy using a strongly interdisciplinary approach based on environmental science rather than treating it as a sub set of economics The scientific principles of sustainability are presented which provide the foundations of the green economy with a particular focus on systems based approaches Examples of real world case studies are used to illustrate how the green economy can be achieved in practice In this way the authors provide a thorough overview of both the principles and practice of the green economy drawing from a wide range of disciplines including ecology geography social science psychology sustainability science environmental science law and economics The emphasis is on presenting results of the latest research derived from leading scientific journals Rather than focusing on a single definition of what constitutes a green economy the book introduces readers to the diversity of opinion that exists and engages them in what is an active on going debate This reflects the fact that many aspects of the green economy and sustainable development more generally are currently contested In particular the book will help readers to strengthen their ability to critically evaluate the evidence for and against the views presented and to actively contribute to the future development of the green economy

Creating Project-Based STEM Environments Jennifer Wilhelm,Ronald Wilhelm,Merryn Cole,2019-02-05 This book models project based environments that are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit

implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way

Introduction to Energy and Climate Julie Kerr, 2017-08-09 The purpose of this textbook is to provide a well rounded working knowledge of both climate change and environmental sustainability for a wide range of students Students will learn core concepts and methods to analyze energy and environmental impacts will understand what is changing the earth s climate and what that means for life on earth now and in the future They will also have a firm understanding of what energy is and how it can be used This text intends to develop working knowledge of these topics with both technical and social implications Students will find in one volume the integration and careful treatment of climate energy and sustainability

Inclusive Texts in Elementary Classrooms Amy J. Heineke, Aimee Papola-Ellis, 2022 Learn how to put children s diverse and storied experiences at the center of the curriculum Schools are more diverse than ever before but the texts and materials that typify classroom curricula continue to prioritize so called mainstream stories and perspectives These canonical texts often exclude the nuanced identities and rich lived experiences of the very children sitting in today s classrooms But kids thrive when they see themselves in texts and learn about the world around them by connecting with the experiences of others Based on the authors work with elementary school teachers over the last decade this resource offers strategies for moving away from canonical texts The authors present a four part framework for selecting using and engaging students with texts that promote children s identity development literacy engagement and comprehension and learning across the content areas The practical text provides guidance for setting learning goals that align with relevant standards and curricular directives as well as classrooms examples teaching strategies and reflective questions Book Features An actionable way for teachers to move from theory to practice using what we know about culturally relevant practice and critical literacy to create instruction that enhances children s classroom experiences and learning An inclusive and intersectional approach that supports all teachers in enhancing their classroom libraries and curricular resources for the benefit of all students Specific ideas for texts and authors as well as more generalizable themes and ideas that will guide future exploration and use of texts in classrooms Tangible strategies and rich classrooms examples from 20 expert teachers spanning diverse elementary school settings Reflective questions to help practitioners personalize the content to their own contexts

Advances in Materials Science for Environmental and Energy Technologies III Tatsuki Ohji, Josef Matyas, Navin Jose Manjooran, Gary Pickrell, Andrei Jitianu, 2014-10-10 This proceedings contains a collection of 26 papers from the following six 2013 Materials Science and Technology MS T 13 symposia Green Technologies for Materials Manufacturing and Processing V Materials Development and Degradation Management in Nuclear Applications Materials Issues in Nuclear Waste Management in the 21st Century Energy Storage III Materials Systems and Applications

Nanotechnology for Energy Healthcare and Industry Hybrid Organic Inorganic Materials for Alternative Energy

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