

**GRADE 11 PHYSICAL SCIENCES**

**NOVEMBER EXAMINATION PAPER 1: PHYSICS**

**SECTION A**

**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** in your answer book.

- 1.1 An example of a vector quantity:
- velocity
  - displacement
  - speed
  - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
  - applied force
  - gravity
  - normal force
- 1.3 Two forces  $F_1$  and  $F_2$  have a net force of 100N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of  $F_1$  and  $F_2$  will be:
- 70N and 30N
  - 100N and 0N
  - 60N and 40N
  - 80N and 20N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 6V
  - 7V
  - 20
  - 30
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20:
- 100
  - 4/50
  - 50
  - 60
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
  - frictional force is more than 200N
  - frictional force is less than 200N
  - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole **P**. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point **B**:

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	up and down inside the coil	North
C	into the coil	South
D	up and down inside the coil	South

# Physical Science Paper 1 November 2011

**Sabita Mohapatra**



## **Physical Science Paper 1 November 2011:**

Climate Change 2014 - Impacts, Adaptation and Vulnerability: Regional Aspects Christopher B. Field, Vicente R. Barros, 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy

**Climate Change 2014 - Impacts, Adaptation and Vulnerability: Part B: Regional Aspects: Volume 2, Regional Aspects** Intergovernmental Panel on Climate Change (IPCC), 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy

Proceedings of Regional Tribology Conference 2011 M.A. Maleque, A. A. Adebisi, 2011-11-22 This book is a compilation of papers presented at the Regional Tribology Conference 2011 RTC2011 Langkawi Malaysia on 22-24 November 2011

Solar and Space Physics National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, Committee on a Decadal Strategy for Solar and Space Physics (Heliophysics), 2013-09-26 From the interior of the Sun to the upper atmosphere and near space environment of Earth and outward to a region far beyond Pluto where the Sun's influence wanes advances during the past decade in space physics and solar physics the disciplines NASA refers to as heliophysics have yielded spectacular insights into the phenomena that affect our home in space Solar and Space Physics from the National Research Council's NRC's Committee for a Decadal Strategy in Solar and Space Physics is the second NRC decadal survey in heliophysics Building on the research accomplishments realized during the past decade the report presents a program of basic and applied research for the period 2013-2022 that will improve scientific understanding of the mechanisms that drive the Sun's activity and the fundamental physical processes underlying near Earth plasma dynamics determine the physical interactions of Earth's atmospheric layers in the context of the connected Sun-Earth system and enhance greatly the capability to provide realistic and specific forecasts of Earth's space environment that will better serve the needs of society Although the recommended program is directed primarily at NASA and the National Science Foundation for action the report also recommends actions by other federal agencies especially the parts of the National Oceanic and Atmospheric Administration charged with the day-to-day operational forecast of space weather In addition to the recommendations included in this summary related recommendations are presented in this report

**Financial Cryptography and Data Security** Andrew A. Adams, Michael Brenner, Matthew Smith, 2013-10-01 This book constitutes the thoroughly refereed post-conference proceedings of the workshop on Usable Security USEC 2013 and the third Workshop on Applied Homomorphic Cryptography WAHC 2013 held in conjunction with the 17th International Conference on Financial

Cryptology and Data Security FC 2013 in Okinawa Japan The 16 revised full papers presented were carefully selected from numerous submissions and cover all aspects of data security The goal of the USEC workshop was to engage on all aspects of human factors and usability in the context of security The goal of the WAHC workshop was to bring together professionals researchers and practitioners in the area of computer security and applied cryptography with an interest in practical applications of homomorphic encryption secure function evaluation private information retrieval or searchable encryption to present discuss and share the latest findings in the field and to exchange ideas that address real world problems with practical solutions using homomorphic cryptography

Aging and the Macroeconomy National Research Council, Division of Behavioral and Social Sciences and Education, Committee on Population, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on the Long-Run Macroeconomic Effects of the Aging U.S. Population, 2013-01-10 The United States is in the midst of a major demographic shift In the coming decades people aged 65 and over will make up an increasingly large percentage of the population The ratio of people aged 65 to people aged 20 64 will rise by 80% This shift is happening for two reasons people are living longer and many couples are choosing to have fewer children and to have those children somewhat later in life The resulting demographic shift will present the nation with economic challenges both to absorb the costs and to leverage the benefits of an aging population Aging and the Macroeconomy Long Term Implications of an Older Population presents the fundamental factors driving the aging of the U S population as well as its societal implications and likely long term macroeconomic effects in a global context The report finds that while population aging does not pose an insurmountable challenge to the nation it is imperative that sensible policies are implemented soon to allow companies and households to respond It offers four practical approaches for preparing resources to support the future consumption of households and for adapting to the new economic landscape

Regenerative-Adaptive Design for Sustainable Development Phillip B. Roös, 2020-09-15 In this book the author tests a regenerative adaptive pattern language theory towards investigating the possibilities of a holistic integrated design and planning method for sustainable development that incorporates the principles of regenerative design as well as an adaptive pattern language that re establishes our wholeness with nature and considers the vulnerabilities of a changing landscape The book examines an integral approach to contemporary theories of planning and design that explores the human nature relationship patterns in social and spatial interconnections between people and their natural environments The interconnectedness of human and natural systems is used to scaffold possible solutions to address key environmental and sustainability issues that specifically address the need for patterns of behaviour that acknowledge the duality of man and nature In 12 chapters the book presents a holistic regenerative adaptive pattern language that encapsulates how communities can better appreciate landscape change under future climate effects and acknowledges the importance to adapt to patterns of change of place and the environment and therefore inform the communities responses for sustainable development The application of the

regenerative adaptive pattern language was tested along the Great Ocean Road region of the Victorian coast in Australia The concluding chapters argues that for human settlements and cities to be resilient and sustainable we must understand the interconnected patterns of human built environments and natural systems and how we function in a social spatial dimension with these The book is intended for practitioners and academic scholars with interest in sustainable development

regenerative design pattern languages biophilia settlement planning and climate change adaptation *The Carbon Crunch* Dieter Helm,2015-01-01 In a new edition of his hard hitting book on climate change economist Dieter Helm looks at how and why we have failed to tackle the issue of global warming and argues for a new pragmatic rethinking of energy policy An optimistically levelheaded book about actually dealing with global warming Kirkus Reviews starred review Dieter Helm has turned his agile mind to one of the great problems of our age why the world s efforts to curb the carbon dioxide emissions behind global warming have gone so wrong and how it can do better Pilita Clark Financial Times **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 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 answer for job interview and as a BONUS 150 links to video movies and web addresses to 205 ecruitment 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 **Technical questions**

**and answers for job interview Offshore Drilling Rigsas** Petrogav International Oil & Gas Training Center,2020-06-29 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

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**Large-Scale Complex IT Systems. Development, Operation and Management** Radu Calinescu,David Garlan,2012-10-12 This book presents the thoroughly refereed and revised post workshop proceedings of the 17th Monterey Workshop held in Oxford UK in March 2012 The workshop explored the challenges associated with the Development Operation and Management of Large Scale complex IT Systems The 21 revised full papers presented were significantly extended and improved by the insights gained from the productive and lively discussions at the workshop and the feedback from the post workshop peer reviews

*Carbon-Neutral Architectural Design* Pablo M. La Roche,2017-07-14 The energy used to operate buildings is one of the most significant sources of greenhouse gas emissions While it is possible to reduce emissions through climate responsive design many architects are not trained to do this Filling an urgent need for a design reference in this emerging field this book describes how to reduce building related greenhouse gas emissions through appropriate design techniques It presents strategies to achieve CO2 reductions with an emphasis on control of energy flows through the building envelope and passive heating and cooling strategies This new revised edition is updated throughout and includes a new chapter on building simulations

*Climate Hazard Crises in Asian Societies and Environments* Troy Sternberg,2017-01-20 Climate hazards are the world s most widespread deadliest and costliest natural disasters Knowledge of climate hazard dynamics is critical since the impacts of climate change population growth development projects and migration affect both the impact and severity of disasters Current global events highlight how hazards can lead to significant financial losses increased mortality rates and political instability This book examines climate hazard crises in contemporary Asia identifying how hazards from the Middle East through South and Central Asia and China have the power to reshape our globalised world In an era of changing climates knowledge of hazard dynamics is essential to mitigating disasters and strengthening livelihoods and societies across Asia By integrating human exposure to climate factors and disaster episodes the book explores the environmental forces that drive disasters and their social implications Focusing on a range of Asian

countries landscapes and themes the chapters address several scales province national regional different hazards drought flood temperature storms dust environments desert temperate mountain coastal and issues vulnerability development management politics to present a diverse comprehensive evaluation of climate hazards in Asia This book offers an understanding of the challenges climate hazards present their critical nature and the effort needed to mitigate climate hazards in 21st century Asia Climate Hazard Crises in Asian Societies and Environments is vital reading for those interested and engaged in Asia s development and well being today and will be of interest to those working in Geography Development Studies Environmental Sciences Sociology and Political Science

**Climate Change, New Security Challenges and the United Nations** Sabita Mohapatra, 2018-02-28 Climate change affects human health in all sectors of society both domestically globally The sea level rise changes in precipitation resulting in flooding drought heat waves more intense hurricanes storms and degraded air quality affect human health This book is an attempt to unravel the new non traditional challenges that the UN will face in coming decades if the states fail to keep the climate change fixed at the threshold of 2 degrees Celsius as agreed at the COP 21 conference in Paris by all the states results in intra and inter state conflict Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka

The Physics of Reality Richard L. Amoroso, 2013 A truly Galilean class volume this book introduces a new method in theory formation completing the tools of epistemology It covers a broad spectrum of theoretical and mathematical physics by researchers from over 20 nations from four continents Like Vigier himself the Vigier symposia are noted for addressing avant garde cutting edge topics in contemporary physics Among the six proceedings honoring J P Vigier this is perhaps the most exciting one as several important breakthroughs are introduced for the first time The most interesting breakthrough in view of the recent NIST experimental violations of QED is a continuation of the pioneering work by Vigier on tight bound states in hydrogen The new experimental protocol described not only promises empirical proof of large scale extra dimensions in conjunction with avenues for testing string theory but also implies the birth of the field of unified field mechanics ushering in a new age of discovery Work on quantum computing redefines the qubit in a manner that the uncertainty principle may be routinely violated Other breakthroughs occur in the utility of quaternion algebra in extending our understanding of the nature of the fermionic singularity or point particle There are several other discoveries of equal magnitude making this volume a must have acquisition for the library of any serious forward looking researchers

*Swarm Planning* Rob Roggema, 2013-09-11 This book shows that the problem of climate adaptation which is described in social planning terms as wicked is at odds with the contemporary practice of spatial planning The author proposes a new adjusted framework which is more adaptable to unpredictable wicked dynamic and non linear processes The inspiration for this new method is the behaviour of swarms bees ants birds and fish are capable of self organization which enables the system to become less vulnerable to sudden environmental changes The framework proposed in Swarm Planning consists of these four elements

Two levels of complexity the first being the whole system and the second its individual components Each of these has different attributes for adapting to change Five layers consisting of networks focal points unplanned space natural resources and emerging occupation patterns Each layer has its own spatial dynamic and each is connected to a spatial scale Non linear processes which emerge in different parts of the framework and include emerging patterns connectedness and tipping points among others Two planning processes the first from small to large works upward from the slowest changing elements to more rapidly changing ones The second on the list of partners addresses each layer from networks through emerging occupation patterns Swarm Planning applies this framework to a series of pilot studies and appraises its performance using criteria for an adaptive landscape The results show that the use of the Swarm Planning Framework reduces the vulnerability of landscapes as well as the impact of climate hazards and disasters improves response to unexpected hazards and contains adaptation strategies This book is a must for planners in government and the private sector as it outlines the concept strategies and techniques for swarm planning It is also an important guide for policymakers looking to engage communities in a dialogue about the adaptation planning process Professor John Martin La Trobe University The ultimate value of the book lies in encouraging the planning community to consider options that go far beyond those offered by business as usual planning methodologies developed for a set of operating conditions that are fast becoming obsolete As such it makes an important and much needed contribution to the field Assistant Professor Dr Chrisna du Plessis University of Pretoria

**Risk, Risk Management and Regulation in the Banking Industry** Peter Pelzer, 2013 This highly original book aims to broaden the discussion about risk the management of risk and regulation especially in the financial industry By using terms of the philosopher Jacques Derrida Peter Pelzer employs philosophical concepts to enrich the understanding of what risk is about and what is necessarily excluded in contemporary risk management

**An Informed Cosmos** Peter S. Williams, 2023-07-14 After a substantial author's preface recounting the author's life journey with the question of science and design in nature An Informed Cosmos pulls together essays that jointly cover the core arguments for a scientific theory of intelligent design Along with a foreword by philosopher of science and leading design theorist Stephen C Meyer and a wide range of recommended resources An Informed Cosmos offers an informed overview of the contemporary case for intelligent design



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web what is ftth fibre to the home ftth sometimes known as fibre to the premises ftp is a broadband internet connection technology that uses optical fibre to deliver high speed broadband internet directly to individual buildings such as households apartment complexes and businesses

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web because ftc has a 3 000 square mile 4 830 square kilometer service territory in five counties it needed a simple way to keep track of where it was installing fiber to the home ftth and where it could expand this service gis was the incontrovertible answer

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web introduction ftth has been developed in response to several residential access market drivers including the following the internet explosion second line growth the desire for higher speeds alternative strategies such as voice over dsl vodsl voice over ip voip voice over atm voatm and cable modems

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web feb 15 2023 fiber to the home ftth also known as fiber to the premises ftp is when optical fiber is installed and connected directly to a single structure such as a home apartment or business

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web fibre to the home ftth is an access network method that delivers the highest possible speed of internet connection by using optical fibre that runs directly into the home building or office ftth is unique because it removes all the bottlenecks that slow the performance of other types of network

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web the passive optical network pon is the optical fiber infrastructure of an ftth network the first crucial architectural decision for the pon network is that of optical splitter placement the centralized approach uses single stage splitters located in

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