



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:
- 5V
 - 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 **X**:

	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 Grade 11 Paper 1 2011

G Thomas



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Virtual and Augmented Reality, Simulation and Serious Games for Education Yiyu Cai,Wouter van Joolingen,Koen Veermans,2021-08-13 This book introduces state of the art research on virtual reality simulation and serious games for education and its chapters presented the best papers from the 4th Asia Europe Symposium on Simulation and Serious Games 4th AESSSG held in Turku Finland December 2018 The chapters of the book present a multi facet view on different approaches to deal with challenges that surround the uptake of educational applications of virtual reality simulations and serious games in school practices The different approaches highlight challenges and potential solutions and provide future directions for virtual reality simulation and serious games research for the design of learning material and for implementation in classrooms By doing so the book is a useful resource for both students and scholars interested in research in this field for designers of learning material and for practitioners that want to embrace virtual reality simulation and or serious games in their education **The Budget of the United States Government** United States,1954 *UPSC Power*

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Handbook of Environmental and Sustainable Finance Vikash Ramiah,Greg N. Gregoriou,2015-10-28 The use of financial concepts and tools to shape development is hardly new but their recent adoption by advocates of sustainable environmental management has created opportunities for innovation in business and regulatory groups The Handbook of Environmental and Sustainable Finance summarizes the latest trends and attitudes in environmental finance balancing empirical research with theory and applications It captures the evolution of environmental finance from a niche scholarly field to a mainstream subdiscipline and it provides glimpses of future directions for research Covering implications from the Kyoto and Paris Protocols it presents an intellectually cohesive examination of problems opportunities and metrics worldwide Introduces the latest developments in environmental economics sustainable accounting work and environmental sustainable finance Explores the effects of environmental regulation on the economy and businesses Emphasizes research about the trade environmental regulation nexus relevant for economics and business students

People Forced to Flee Ninette Kelley,2022 There are today some 60 million people who have fled their homes because of persecution and conflict This is the highest number ever recorded These people suffer exile that will likely last for years and even whole lifetimes both present and future The unprecedented scale and duration of forced displacement provide unsettling points of departure for the 2016 edition of The State of the World s Refugees Covering the years since 2012 this volume is the seventh in a series of flagship publications by the Office of the United Nations High Commissioner for Refugees UNHCR This book draws upon expert analysis as well as UNHCR s direct experience to shed light on the root causes and consequences of the current humanitarian and development crisis Its eleven chapters examine the world s evolving efforts to finance plan and implement basic human rights protections amidst a recent spate of complex emergencies Updated data maps and case studies examine persistent challenges such as limited

access to asylum abroad protection gaps at home for internally displaced persons the devastating consequences of statelessness and the troubling elusiveness of durable solutions This book also highlights the widespread impact of climate change as well as innovations in how humanitarian operations are designed and conducted Over 65 years after UNHCR was established *A World in Turmoil* reveals why its work remains more relevant and urgent than ever **Economics of Climate Change in East Asia** Michael I. Westphal, Gordon A. Hughes, Jörn Brömmelhörster, 2015-01-01 This regional study includes the People's Republic of China Japan the Republic of Korea and Mongolia and examines how strategies for adapting to climate change up to 2050 can be combined with measures to reduce greenhouse gas emissions in East Asia Besides discussing climate model results for costs of adaptation in infrastructure coastal protection and agriculture the study estimates costs for sector specific mitigation options and the total abatement potential for 2020 and 2030 Long term strategies for addressing the impacts of climate change in East Asia are explored with a focus on the linkages between adaptation and mitigation taking account uncertainty about key climate variables Finally it discusses opportunities for enhancing the effectiveness of some critical climate change policies such as regional carbon market **Beiträge zur Entscheidungsunterstützung bei der Kaskadennutzung von erneuerbaren Ressourcen** Matthias Garbs, 2018-10-30 In dieser Dissertation werden drei eigenständige Paper vorgestellt die sich mit der Entscheidungsunterstützung bei der Kaskadennutzung von nachwachsenden Rohstoffen in unterschiedlichen wirtschaftlichen Bereichen beschäftigen Die ersten zwei Paper untersuchen dabei finanzielle und ökologische Auswirkungen der Kaskadennutzung Gegenstand der Untersuchung im ersten Paper ist die Kaskadennutzung in logistischen Netzwerken von Holzflüssen Dagegen werden im zweiten Paper Wirtschaftsdüngert Transporte aus viehrefleichen Regionen in viehharme Regionen untersucht Hierbei besteht die Kaskadennutzung in der Nutzung des Wirtschaftsdüngers in einer Biogasanlage zur Energiegewinnung vor der letztendlichen Ausbringung als Dünger Das dritte Paper thematisiert unsichere Minimax Probleme die auch im Rahmen der Kaskadennutzung vorkommen können Es untersucht mathematisch welche strukturellen Eigenschaften das unsichere Minimax Problem besitzt und wie dies der Entscheidungsunterstützung dient *Earth Observation Applications and Global Policy Frameworks* Argyro Kavvada, Douglas Cripe, Lawrence Friedl, 2022-08-04 Applying Earth science knowledge to sustainable development disaster risk reduction and climate action Data and insights from Earth observations are critical for assessing the health of our planet monitoring change and addressing societal challenges from the local to the global scale *Earth Observation Applications and Global Policy Frameworks* presents case studies of Earth science information integrated with statistics and socioeconomic data for managing development targets improving disaster resilience and mitigating and adapting to climate change It also showcases open collaboration among researchers United Nations and government officials entrepreneurs and the public Volume highlights include Case studies of projects working with local and national governments and through public private partnerships to make the most of the large volume of complex and diverse Earth

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Materials for Nuclear Plants Wolfgang Hoffelner,2012-09-21 The clamor for non carbon dioxide emitting energy production has directly impacted on the development of nuclear energy As new nuclear plants are built plans and designs are continually being developed to manage the range of challenging requirement and problems that nuclear plants face especially when managing the greatly increased operating temperatures irradiation doses and extended design life spans Materials for Nuclear Plants From Safe Design to Residual Life Assessments provides a comprehensive treatment of the structural materials for nuclear power plants with emphasis on advanced design concepts Materials for Nuclear Plants From Safe Design to Residual Life Assessments approaches structural materials with a systemic approach Important components and materials currently in use as well as those which can be considered in future designs are detailed whilst the damage mechanisms responsible for plant ageing are discussed and explained Methodologies for materials characterization materials modeling and advanced materials testing will be described including design code considerations and non destructive evaluation concepts Including models for simple system dynamic problems and knowledge of current nuclear power plants in operation Materials for Nuclear Plants From Safe Design to Residual Life Assessments is ideal for students studying postgraduate courses in Nuclear Engineering Designers on courses for code development such as ASME or ISO and nuclear authorities will also find this a useful reference

Pastoralism and Development in Africa Andy Catley,Jeremy Lind,Ian Scoones,2013-05-07 Once again the Horn of Africa has been in the headlines And once again the news has been bad drought famine conflict hunger suffering and death The finger of blame has been pointed in numerous directions to the changing climate to environmental degradation to overpopulation to geopolitics and conflict to aid agency failures and more But it is not all disaster and catastrophe Many successful development efforts at the margins often remain hidden informal sometimes illegal and rarely in line with standard development prescriptions If we shift our gaze from the capital cities to the regional centres and their hinterlands then a very different perspective emerges These are the places where pastoralists live They have for centuries struggled with drought conflict and famine They are resourceful entrepreneurial and innovative peoples Yet they have been ignored and marginalised by the states that control their territory and the development agencies who are supposed to help them This

book argues that while we should not ignore the profound difficulties of creating secure livelihoods in the Greater Horn of Africa there is much to be learned from development successes large and small This book will be of great interest to students and scholars with an interest in development studies and human geography with a particular emphasis on Africa It will also appeal to development policy makers and practitioners

Food Dependency in the Middle East and North Africa Region Chantal Le Mouël, Bertrand Schmitt, 2018-09-10 This volume covers the Middle Eastern and North African regions who are increasingly dependent on imports from abroad for covering their domestic food needs Results of this study show that this import dependence is likely to increase further by 2050 Some sub regions hardly reach sustainable levels the Maghreb Near and Middle East could import 60 to 70% of their food needs These results are indicative whatever the considered scenario but especially if climate change impacts become more severe

Turn Down the Heat World Bank Publications, 2014-11-20 A Report for the World Bank by the Potsdam Institute for Climate Impact Research and Analytics

Climate, Society and Elemental Insurance Kate Booth, Chloe Lucas, Shaun French, 2022-06-24 In this book world leading social scientists come together to provide original insights on the capacities and limitations of insurance in a changing world Climate change is fundamentally changing the ways we insure and the ways we think about insurance This book moves beyond traditional economics and financial understandings of insurance to address the social and geopolitical dimensions of this powerful and pervasive part of contemporary life Insurance shapes material and social realities and is shaped by them in turn The contributing authors of this book show how insurance constitutes and is constituted through the traditional elements of earth water air fire and the novel element of big data The applied and theoretical insights presented through this novel elemental approach reveal that insurance is more dynamic multifaceted and spatially variegated than commonly imagined This book is an authoritative source on the capacities and limitations of insurance It is a go to reference for researchers and students in the social sciences particularly those with an interest in economics and finance and how these intersect with geography politics and society It is also relevant for those in the disaster environmental health natural and social sciences who are interested in the role of insurance in addressing risk resilience and adaptation The Open Access version of this book available at www.taylorfrancis.com has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

The New Net Zero Bill Maclay, 2014 The new threshold for green building is not just low energy it's net zero energy In *The New Net Zero* sustainable architect Bill Maclay charts the path for designers and builders interested in exploring green design's new frontier net zero energy structures that produce as much energy as they consume and are carbon neutral In a nation where traditional buildings use roughly 40 percent of the total fossil energy the interest in net zero building is growing enormously among both designers interested in addressing climate change and consumers interested in energy efficiency and long term savings Maclay an award winning net zero designer whose buildings have achieved high performance goals at affordable costs makes the case for a net zero future explains net zero building metrics integrated

design practices and renewable energy options and shares his lessons learned on net zero teambuilding Designers and builders will find a wealth of state of the art information on such considerations as air water and vapor barriers embodied energy residential and commercial net zero standards monitoring and commissioning insulation options costs and more The comprehensive overview is accompanied by several case studies which include institutional buildings commercial projects and residences Both new building and renovation projects are covered in detail The New Net Zero is geared toward professionals exploring net zero design but also suitable for nonprofessionals seeking ideas and strategies on net zero options that are beautiful and renewably powered

Science Education Research and Practice in Asia Mei-Hung Chiu, 2016-06-10 This book discusses the scope of science education research and practice in Asia It is divided into five sections the first consists of nine chapters providing overviews of science education in Asia China Lebanon Macau Malaysia Mongolia Oman Singapore Taiwan and Thailand The second section offers chapters on content analysis of research articles while the third includes three chapters on assessment and curriculum The fourth section includes four chapters on innovative technology in science education and the fifth section consists of four chapters on professional development and informal learning Each section also has additional chapters providing specific comments on the content This collection of works provides readers with a starting point to better understand the current state of science education in Asia

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