

## 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
  - 20V
  - 30V
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20Ω:
- 10Ω
  - 4/3Ω
  - 5Ω
  - 6Ω
- 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

# November 2012 Pfor Physics Grade 1

**Malcolm Warner**



## **November 2012 Pfor Physics Grade 1:**

Science Education in the Arab Gulf States Nasser Mansour, Saeed Al-Shamrani, 2015-04-27 The book introduces the development of science education in the Arab Gulf states and presents a critical analysis of current issues and concerns in educational research in science education The key purpose is to provide some perspectives on the state of science education in Gulf and to share experiences with international scholars about the impact of the innovations and reforms implemented in science education in Arabian Gulf But Science Education in the Arab Gulf States also intends to present new visions and to make suggestions and recommendations about the contribution of science education to prepare students in the knowledge age The volume is organised into three main sections The first section addresses the current practices and challenges in science education in some of the Arab Gulf states This section sheds critically the light on the challenges and problems that hinder or constrain the implementation of innovations in science education The second section analyses the science educational reforms and innovations that are being implemented in the Arabian Gulf This section presents experiences and research with using new approaches to teaching and learning in science classrooms in some of the Arab Gulf states The third section discusses the socio cultural issues that have impacted on shaping and reshaping the science education in the Arabian Gulf This section focuses on exploring the socio cultural factors that influence engagement and non engagement in science education It also explores how socio cultural issues and contexts guide the reform of science education in the Arabian Gulf and presents various examples of how we can respond to cultural issues

Nuclear Terrorism and Global Security Alan J. Kuperman, 2013-04-17 This book examines the prospects and challenges of a global phase out of highly enriched uranium and the risks of this material otherwise being used by terrorists to make atom bombs Terrorist groups such as Al Qaeda have demonstrated repeatedly that they seek to acquire nuclear weapons Unbeknownst even to many security specialists tons of bomb grade uranium are trafficked legally each year for ostensibly peaceful purposes If terrorists obtained even a tiny fraction of this bomb grade uranium they could potentially construct a nuclear weapon like the one dropped on Hiroshima that killed tens of thousands Nuclear experts and policymakers have long known of this danger but so far have taken only marginal steps to address it This volume begins by highlighting the lessons of past successes where bomb grade uranium commerce has been eliminated such as from Argentina's manufacture of medical isotopes It then explores the major challenges that still lie ahead for example Russia's continued use of highly enriched uranium HEU in dozens of nuclear facilities Each of the book's thirteen case studies offers advice for reducing HEU in a specific sector These insights are then amalgamated into nine concrete policy recommendations for U S and world leaders to promote a global phase out of bomb grade uranium This book will be of much interest to students of nuclear proliferation global governance international relations and security studies

Comprehensive Energy Systems Ibrahim Dincer, 2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most

significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language **Canadian Journal of Physics** ,2013 Handbook of Research on Science Education, Volume II Norman G. Lederman,Sandra K. Abell,2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community *Examining Optoelectronics in Machine Vision and Applications in Industry 4.0* Sergiyenko, Oleg,Rodriguez-Quiñonez, Julio C.,Flores-Fuentes, Wendy,2021-02-12 The research and exploitation of optoelectronic properties in the industrial branch of electronics is becoming more popular each day due to the important role they play in the development of a large variety of sensors devices and systems for identifying measuring and constructing While optoelectronics study the applications of electronic devices that source detect and transform light machine vision generates and detects light in order to provide imaging based automatic inspections and analysis for such applications as automatic object and environmental inspection process control and robot mobile machine guidance in industry Machine vision is less efficient without optoelectronics and thus it is important to investigate the theoretical approaches to different optoelectronic devices available for machine vision as well as current scanning technologies Examining Optoelectronics in Machine Vision and Applications in Industry 4 0 focuses on the examination of emerging technologies for the design fabrication and implementation of optoelectronic sensors devices and systems in a machine vision approach to support industrial commercial

and scientific applications The book covers topics such as the design fabrication and implementation of sensors and devices as well as the development viewpoint of optoelectronic systems and artificial vision techniques using optoelectronic devices The interaction and informational communication between all these mentioned devices in the complex solution of the same task is the subject of modern challenges in Industry 4 0 Thus this book supports engineers technology developers academicians researchers and students who seek machine vision techniques for detection measurement and 3D reconstruction

**Radioactive Elements—Advances in Research and Application: 2013 Edition** ,2013-06-21

Radioactive Elements Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Radon The editors have built Radioactive Elements Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Radon in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Radioactive Elements Advances in Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**Neuro-Oncology Compendium for the Boards and Clinical Practice** Maciej

M. Mrugala,Na Tosha Gatson,Sylvia C. Kurz,Jennifer L. Clarke,Kathryn S. Nevel,2023 This essential text includes supplementary figures and tables succinct review flashcards end of chapter questions and answers as well as end of volume exams so readers can review and test their own comprehension Each chapter has been reviewed by the editors to ensure cohesive board level verbiage emphasizing practical clinical knowledge Neuro Oncology Compendium for the Boards and Clinical Practice is up to date and comprehensive eliminating the need for multiple sources of study

**Treatise on Geophysics** ,2015-04-17 Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution Additional features include new material in the Planets and Moon Mantle Dynamics Core Dynamics Crustal and Lithosphere Dynamics Evolution of the Earth and Geodesy volumes New material is also presented on the uses of Earth gravity measurements This title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state of the art discussions of all research topics Integration of topics into a coherent whole

**The Selfless Constitution** Stu Woolman,2021-07-28 Do you possess freedom the will to

do as you choose as an individual as a participant in social affairs or as a citizen in the political realm Well no Not really At least not as most of us understand a term loaded down with metaphysical baggage Don t worry You ve got something better a neurological system capable of carrying out the most complex analytical and computational tasks membership in innumerable communities that provide you with huge stores of knowledge and wisdom and a politico constitutional order that ought to provide the material and the immaterial conditions that will enable you to pursue a life worth valuing Drop the simplistic folk psychology of unfettered freedom whilst holding on to intentionality and you might be inclined to adopt a set of social practices and political arrangements that enhance the chances that you and your compatriots will flourish As many recent studies of consciousness reveal our neurological systems are complex feedback mechanisms designed to create myriad for trial and error and if you survive the production of new stores of knowledge Individuals comprised of numerous radically heterogeneous naturally and socially determined selves are always experimenting attempting to divine through reflection and action what works best even when best means fully embracing who we already are Choice architects those persons charged with constructing the environments within which we operate daily should if responsible regularly run experiments that attempt to eliminate biases and ultimately deliver norms that nudge us away from negative defaults toward more optimal ends A constitutional democracy made up of millions of radically heterogeneous densely populated individuals constantly strives to determine what works best for most of its many constituents Because South Africa s Constitution states at an extremely high level of generality only some of the norms that govern our lives it remains for citizens representatives and judges to create doctrines and institutions that serve its capaciously framed ends best After canvassing the relevant literature in neuroscience empirical philosophy behavioural psychology social capital theory development economics and emergent experimental governance this work suggests that manifold experiments in living that fall within the accepted parameters of our shared constitutional norms are likely over time to produce more optimal ways of being that can be replicated by other members of our polity Our reflexive stance toward best practices a linchpin of this book s take on experimental governance when inextricably linked to a commitment to flourishing and to the expansion of individual capabilities should cause us to alter the content of the fundamental norms that shape our lives and bind us to one another A political order founded upon experimental constitutionalism and flourishing promises an egalitarian pluralist reformation of South African society The book spins out its novel thesis against the concrete backdrop of political arrangements and judicial doctrines that have emerged during the first 20 years of our truly vibrant constitutional democracy Its trenchant analysis of political institutions and constitutional case law shows us how far we have come and how far we still have to go

*Understanding Management in China* Malcolm Warner, 2013-11-12 China has become one of the fastest growing economies ever seen in the world in recent times In the last three decades China has transformed itself from a command economy to a market one albeit a nominally socialist one and its management systems have been reformed accordingly In the

light of these changes Malcolm Warner one of the leading authorities on management in China explores the past present and future of Chinese management The first part of the work examines the history of management practices in the Middle Kingdom outlining the influence of traditional Chinese values especially the Confucian inheritance and the legacy of the imperial bureaucracy with its meritocratic examination system as well as the role of industrialization and the influx of foreign owned businesses in the late nineteenth century and the twentieth century It next goes on to consider the current state of China s management showing how a new breed of manager has evolved since the beginning of Deng Xiaoping s reforms in the late 1970s and 1980s The resulting impact of this strategy which has continued into the 1990s and the 2000s up to the present day is then examined The final part of the book concludes with reflections on how management in China is likely to develop in the near future especially on how far it will converge with global practices or to what degree an indigenous form of management with Chinese characteristics will prevail

**Mathematics Curriculum in School Education** Yeping Li, Glenda Lappan, 2013-11-19 Mathematics curriculum which is often a focus in education reforms has not received extensive research attention until recently Ongoing mathematics curriculum changes in many education systems call for further research and sharing of effective curriculum policies and practices that can help lead to the improvement of school education This book provides a unique international perspective on diverse curriculum issues and practices in different education systems offering a comprehensive picture of various stages along curriculum transformation from the intended to the achieved and showing how curriculum changes in various stages contribute to mathematics teaching and learning in different educational systems and cultural contexts The book is organized to help readers learn not only from reading individual chapters but also from reading across chapters and sections to explore broader themes including Identifying what is important in mathematics for teaching and learning in different education systems Understanding mathematics curriculum and its changes that are valued over time in different education systems Identifying and analyzing effective curriculum practices Probing effective infrastructure for curriculum development and implementation Mathematics Curriculum in School Education brings new insights into curriculum policies and practices to the international community of mathematics education with 29 chapters and four section prefaces contributed by 56 scholars from 14 different education systems This rich collection is indispensable reading for mathematics educators researchers curriculum developers and graduate students interested in learning about recent curriculum development research and practices in different education systems It will help readers to reflect on curriculum policies and practices in their own education systems and also inspire them to identify and further explore new areas of curriculum research for improving mathematics teaching and learning

**Shaping Future Schools with Digital Technology** Shengquan Yu, Hannele Niemi, Jon Mason, 2019-08-24 This book presents an overview of education technology and its use in schools with a primary emphasis on best practices of technology enhanced learning how new technologies such as mobile augmented and wearable technologies affect instructional design strategies and the content

curriculum development process Providing insights into the future of education and the upcoming pedagogies that will be applied in schools it helps educators and other stakeholders make innovations for the new generations of learners in the 21st century The use of emerging technologies such as mobile and ubiquitous technologies context aware technology augment reality and virtual reality is contributing to making education adaptive and smarter With the ever changing technologies how to equip teachers with these digital skills and transform their teaching style is also important to ensure that school education is more individualised and customised for students Offering a global perspective with integrated practical cases this timely book is of interest to educators teachers and education policymakers And although most of the authors are from the academia it provides non experts with a novel view of what future schools will be like with the help of technology "Code of Massachusetts regulations, 2012" ,2012 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Pastplay** Kevin Kee,2014-03-10 A collection of scholars and teachers of history unpack how computing technologies are transforming the ways that we learn communicate and teach

**PET/CT in Cancer: An Interdisciplinary Approach to Individualized Imaging** Mohsen Beheshti,Werner Langsteger,Alireza Rezaee,2017-05-25 Edited authored and reviewed by an expert team of oncologists and nuclear physicians radiologists this one of a kind title helps you make the most of the critical role PET CT plays in cancer staging and therapeutic responses to individualized treatments Drs Mohsen Beheshti Werner Langsteger and Alireza Rezaee place an emphasis on cutting edge research and evidence based practice ensuring that you re up to date with every aspect of this fast changing field For each tumor entity you ll find authoritative discussions of background pathology common pattern of spread TNM classification clinical guidelines discussion evidence based recommendations key points and pitfalls Contains 130 teaching cases with high quality PET CT images Presents clear practical guidance from multiple experts across subspecialties nuclear medicine oncology oncologic surgery radiation oncology and clinical research Includes separate comprehensive chapters on head and neck lung breast esophageal gastric pancreas neuroendocrine colorectal hepatobiliary lymphoma gynecologic prostate melanoma and brain cancers Features short reviews of clinical aspects of different cancers primary diagnostic procedures and recommendations regarding PET CT from ESMO and NCCN Helps to reveal positive outcomes or potential deficits or weaknesses in an individual plan of care allowing for better outcomes in patient care future cancer research and application of radiotracers beyond 18F FDG Advances in Radiotherapy Research and Application: 2013 Edition ,2013-06-21 Advances in Radiotherapy Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Brachytherapy The editors have built Advances in Radiotherapy Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Brachytherapy in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Radiotherapy Research and Application 2013 Edition



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***Medical Oncology Compendium*** Ramon Andrade B de Mello, 2025-04-16

*Medical Oncology Compendium* discusses several important topics in oncology with the help of leading experts worldwide who incorporate not only knowledge on recent developments in the field but contextualize them within diverse socioeconomic environments to guarantee the applicability of the content in challenging scenarios. The book comprehensively discusses topics such as surgery, radiology, carcinogenesis, screening, assessment tools, evidence-based medicine, and precision oncology as applicable to different cancer types: as non-small and small cell lung cancer, mesothelioma, breast cancer, gastric, rectal cancer, female-specific cancers, prostate, skin, and bone sarcomas. In addition, it discusses options to minimize oncology pain and palliative care. It is a valuable resource for oncologists, clinicians, researchers, healthcare workers, and members of the biomedical field who need to understand more about diagnosis, treatment options, and support for cancer patients. Presents clinical vision, consensus from global experts in the field, to leverage knowledge sharing worldwide. Illustrates the content with tables and medical images especially developed for the book. Encompasses clinical case discussions at the end of each chapter to sediment theory and practice and improve medicine, evidence-based care.

***Magnetic Fusion Energy*** George Neilson, 2016-06-02

*Magnetic Fusion Energy: From Experiments to Power Plants* is a timely exploration of the field, giving readers an understanding of the experiments that brought us to the threshold of the ITER era as well as the physics and technology research needed to take us beyond ITER to commercial fusion power plants. With the start of ITER construction, the world's magnetic fusion energy (MFE) enterprise has begun a new era. The ITER scientific and technical (S-T) basis is the result of research on many fusion plasma physics experiments over a period of decades. Besides ITER, the scope of fusion research must be broadened to create the S-T basis for practical fusion power plants: systems that will continuously convert the energy released from a burning plasma to usable electricity, operating for years with only occasional interruptions for scheduled maintenance. Provides researchers in academia and industry with an authoritative overview of the significant fusion energy experiments. Considers the pathway towards future development of magnetic fusion energy power plants. Contains experts' contributions from editors and others who are well known in the field.

**Issues in Cancer Treatment: 2013 Edition**, 2013-05-01

*Issues in Cancer Treatment: 2013 Edition* is a ScholarlyEditions book that delivers timely, authoritative, and comprehensive information about Gene Therapy. The editors have built *Issues in Cancer Treatment: 2013 Edition* on the vast information databases of ScholarlyNews. You can expect the information about Gene Therapy in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Issues in Cancer Treatment: 2013 Edition* has been produced by the world's leading scientists, engineers, analysts,

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