



## 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 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

# Grade 11 November 2012 Physical Science P

**Douglas Self**



## **Grade 11 November 2012 Physical Science P:**

**Rheumatology Practice in Occupational Therapy** Lynne Goodacre, Margaret McArthur, 2013-02-28 Rheumatology Practice in Occupational Therapy Promoting Lifestyle Management is a valuable new handbook focusing on rheumatology a core area of occupational therapy practice It provides practical guidance to help occupational therapists treat and manage rheumatic conditions in both clinical and community settings and emphasises a contemporary client centred approach as a fundamental requirement of effective and rewarding occupational therapy practice Drawing upon personal clinical and theoretical perspectives Rheumatology Practice in Occupational Therapy equips the reader with an understanding of the relevant practical skills and of the clinical reasoning required to modify and apply these skills to the needs of individual people Written by experts from occupational therapy sociology and psychology this book addresses the need to adapt occupational therapy interventions to each client s own experience of living with a rheumatic condition and develops the reader s understanding of key theoretical and clinical approaches to person centred management Rheumatology Practice in Occupational Therapy is essential reading for all occupational therapists helping people with rheumatic conditions in hospital and community settings and for students preparing for practice It will also be of interest to other healthcare professionals working with people with these conditions Includes personal narratives of people trying to live their lives within the context of a debilitating condition Promotes understanding of key theoretical and clinical approaches to person centred management Written by authors with extensive experience in clinical and research contexts Offers practical resource sections at the end of each chapter Related titles Occupational Therapy and Older People 2nd Edition Anita Atwal Anne McIntyre 978 1 4443 3333 6 Role Emerging Occupational Therapy Maximising Occupation Focused Practice Miranda Thew Mary Edwards Sue Baptiste Matthew Molineux 978 1 4051 9782 3 Interprofessional Rehabilitation A Person Centred Approach Sarah G Dean Richard J Siegert William J Taylor 978 0 470 65596 2      **Tribo-Informatics** Zhinan Zhang, Nian Yin, 2024-04-11 This book details how artificial intelligence and other informatic methods can be applied to the field of tribology Using problems often found within tribological condition monitoring behaviour prediction system optimization and mechanism analysis the book covers methods used such as Artificial Neural Networks ANN Including case studies throughout the book offers an accessible introduction to tribological research beginning with background on the theory behind tribo informatics and updates in the latest technology It describes how to establish a tribo informatics database methods through which to express tribo systems such as Artificial Neural Networks ANN Support Vector Machines SVM K Nearest Neighbor KNN and Random Forest RF and its applications It can be used in state monitoring behaviour prediction and system optimization Through case studies practical examples of how tribo informatics can be implemented are shown throughout various industries This book will be of interest to students and researchers in the field of tribology friction wear and artificial intelligence      **Transhumanizing War** H. Christian Breede, Stéphanie A.H. Bélanger, Stéphanie von Hlatky, 2020-04-09 The concept of soldier enhancement often

invokes images of dystopian futures populated with dehumanized military personnel These futures serve as warnings in science fiction works and yet the enhancement of soldiers combat capability is almost as old as war itself Today soldier enhancement is the purpose of military training and the application of innovative technologies but when does it begin to challenge individuals very humanity Bringing together the work of a diverse group of practitioners and academics

*Transhumanizing War* examines performance enhancement in the military from a wide range of perspectives The book builds on two key premises that rapid advances in science and technology are outstripping governments and military organizations capacity to adapt and that this has put pressure on the connection between the military and the public The contributors to this collection grapple with the implications of continued technological advancement and the possibility that innovative solutions to performance enhancement will risk further alienating the soldier from society Navigating the fine line between technological promise and ethics this volume presents a guide to responsible implementation in Canada and abroad Offering unique insights into a debate on the bleeding edge of public discourse *Transhumanizing War* considers the best ways to improve combat effectiveness while still preserving soldiers humanity Science of Stretching Alex Reid,2017-05-11 The Science of Stretching is a research based book that brings together the scientific principles of many different modalities of stretching and its application to the general and sporting populations The book reviews static stretching dynamic stretching ballistic stretching vibration platform PNF myofascial release Pilates and Yoga as well as post operative chronic and acute injury benefits Appropriate prescription application and expected outcomes are explained which will revolutionize the way you choose to stretch The effect of stretching on performance indicators like delayed onset muscle soreness DOMS running economy speed and power as well as chronic pain growth related acute and chronic injury and exercise associated muscle cramp are all reviewed and discussed from the latest research The research indicates both positive and negative outcomes from stretching on performance indicators and some modalities are more relevant for certain populations than others This book will help you take the guesswork out of stretching and is fully illustrated with 160 colour photographs and 10 diagrams

*Tripping from the Fall Line* David K. Brezinski,Jeffrey P. Halka,Richard A. Ortt Jr.,2015-10-07 Emanating from the Fall Line city of Baltimore site of the 2015 GSA Annual Meeting these trips reflect the diversity of geological features in the mid Atlantic region including the Piedmont Appalachian Mountains and Coastal Plain and the importance of geology on the development and construction of the Baltimore Washington D C metropolitan area **The Indian Journal of Agricultural Sciences** ,2016 *Concepts of Matter in Science Education* Georgios Tsaparlis,Hannah Sevan,2013-07-09 Bringing together a wide collection of ideas reviews analyses and new research on particulate and structural concepts of matter Concepts of Matter in Science Education informs practice from pre school through graduate school learning and teaching and aims to inspire progress in science education The expert contributors offer a range of reviews and critical analyses of related literature and in depth analysis of specific issues as well as new research Among the themes covered are learning

progressions for teaching a particle model of matter the mental models of both students and teachers of the particulate nature of matter educational technology chemical reactions and chemical phenomena chemical structure and bonding quantum chemistry and the history and philosophy of science relating to the particulate nature of matter The book will benefit a wide audience including classroom practitioners and student teachers at every educational level teacher educators and researchers in science education If gaining the precise meaning in particulate terms of what is solid what is liquid and that air is a gas were that simple we would not be confronted with another book which while suggesting new approaches to teaching these topics confirms they are still very difficult for students to learn Peter Fensham Emeritus Professor Monash University Adjunct Professor QUT from the foreword to this book

### **Sport Development in the United States**

Peter Smolianov, Dwight Zakus, Joseph Gallo, 2014-09-15 The development of both elite high performance sport and mass participation grassroots level sport are central concerns for governments and sports governing bodies This important new study is the first to closely examine the challenges and opportunities for sports development in the United States a global sporting giant with a unique market driven sporting landscape Presenting an innovative model of integrated sports development the book explores the inter relationship between elite and mass sport across history drawing on comparative international examples from Australia to the former USSR and Eastern bloc countries At the heart of the book is an in depth empirical study of three traditional and emerging sports in the US tennis soccer and rugby that offer important lessons on the development of elite sport methods for increasing participation and the establishment of new sports in new markets No other book has attempted to model sports development in the United States in such depth before Therefore this should be essential reading for all students researchers administrators or policy makers with an interest in sports development sports management sports policy or comparative international sport studies

### ***Military Weapons and Environment***

Wing Commander (Dr) Umesh Chandra Jha, 2017-10-15 Armed conflicts have become more complicated with the emphasis shifting towards new weapons such as drones cybercrime and autonomous weapons In July 2017 the UN General Assembly adopted the Treaty on the Prohibition of Nuclear Weapons This treaty prohibits a full range of nuclear weapon related activities such as undertaking to develop test produce manufacture acquire possess or stockpile nuclear weapons or other nuclear explosive devices as well as the use or threat of use of these weapons The ongoing conflicts have shown that the consequences of the use of explosive weapons are not limited to death physical injury and disability but also include long term impacts on mental well being The use of improvised weapons by States and non State actors is an area of concern for the environment Every State must therefore ensure that weapons used by their armed forces are explicitly adjudged under International Humanitarian Law IHL and Human Rights Law While reviewing a new weapon the States must adopt multilateral approaches drawing upon relevant legal health environmental and military expertise This book describes the environmental effects of eight weapons and explosive remnants of war that have caused extensive environmental harm in the recent past It also

makes specific recommendations addressed to the international community and the States for protecting the natural environment from the impact of weapons of war This book will contribute towards a better understanding of the environmental harm caused by military weapons

**Learning to Teach Science in the Secondary School** Lindsay Hetherington, Luke Graham, Darren Moore, 2024-06-27 Learning to Teach Science in the Secondary School is an indispensable guide to the process practice and reality of learning to teach science in a busy secondary school Written by experienced teachers and expert academics it explores core debates and topics in science education providing practical and insightful advice with research and theory to support your development as a teacher This fully updated fifth edition focuses on the knowledge and skills you will need to develop your science teaching including key approaches to teaching physics chemistry and biology lesson and curriculum planning and assessment There are also new chapters on Safety in science teaching The science of learning for teaching science Mathematics and learning science Science for social justice Inclusive and adaptive science teaching Making use of research practical guidance for science teachers Written with university and school based initial teacher education in mind and including learning objectives lists of useful resources and specially designed tasks in every chapter Learning to Teach Science in the Secondary School offers all student and early career teachers accessible and comprehensive guidance to support the journey of becoming an effective science teacher

**Inclusive and Adaptive Teaching** Peter Westwood, 2013-01-04 What does it actually mean to teach an inclusive mixed ability class From the author of the classic teacher text Commonsense Methods for Children with Special Needs this new book from Peter Westwood fully acknowledges what is feasible and useful to teachers in today's inclusive classroom This insightful teaching resource promotes a fully inclusive approach to teaching the common curriculum to all while acknowledging differences among learners in relation to intelligence gender socioeconomic background cultural background language skills and disabilities Drawing on the underlying principles of inclusive education and on curriculum and learning theories Westwood discusses in detail the challenge of diversity in the classroom The author presents in practical terms an adaptive approach to teaching that can respond when necessary to differences among students Accessible chapters in this book present sound pedagogical practice linked with adapting curriculum content helpful teaching methods a range of resource materials useful assessment procedures support for learning The writer draws appropriately on international research and current learning theories to support this approach whilst each chapter contains an up to date list of online and print resources easily available to teachers who wish to pursue topics in greater depth This book will be of interest to both practising and trainee teachers and teaching assistants as well as school principals school counsellors and educational psychologists

**Inclusive and Adaptive Teaching** Peter S. Westwood, 2013 What does it actually mean to teach an inclusive mixed ability class From the author of the classic teacher text Commonsense Methods for Children with Special Needs this new book from Peter Westwood fully acknowledges what is feasible and useful to teachers in today's inclusive classroom This insightful teaching resource

promotes a fully inclusive approach to teaching the common curriculum to all while acknowledging differences among learners in relation to intelligence gender socioeconomic background cultural background language skills and disabilities Drawing on the underlying principles of inclusive education and on curriculum and learning theories Westwood discusses in detail the challenge of diversity in the classroom The author presents in practical terms an adaptive approach to teaching that can respond when necessary to differences among students Accessible chapters in this book present sound pedagogical practice linked with adapting curriculum content helpful teaching methods a range of resource materials useful assessment procedures support for learning The writer draws appropriately on international research and current learning theories to support this approach whilst each chapter contains an up to date list of online and print resources easily available to teachers who wish to pursue topics in greater depth This book will be of interest to both practising and trainee teachers and teaching assistants as well as school principals school counsellors and educational psychologists Excellence Gaps in Education Jonathan A. Plucker, Scott J. Peters, 2020-01-15 2017 Texas Association for Gifted and Talented Legacy Scholar Book Award 2017 National Association of Gifted Children Scholar Book of the Year Award In Excellence Gaps in Education Jonathan A Plucker and Scott J Peters shine a spotlight on excellence gaps the achievement gaps among subgroups of students performing at the highest levels of achievement Much of the focus of recent education reform has been on closing gaps in achievement between students from different racial ethnic or socioeconomic backgrounds by bringing all students up to minimum levels of proficiency Yet issues related to excellence gaps have been largely absent from discussions about how to improve our schools and communities Plucker and Peters argue that these significant gaps reflect the existence of a persistent talent underclass in the United States among African American Hispanic Native American and poor students resulting in an incalculable loss of potential among our fastest growing populations Drawing on the latest research and a wide range of national and international data the authors outline the scope of the problem and make the case that excellence gaps should be targeted for elimination They identify promising interventions for talent development already underway in schools and provide a detailed review of potential strategies including universal screening flexible grouping targeted programs and psychosocial interventions Excellence Gaps in Education has the potential for changing our national conversation about equity and excellence and bringing fresh attention to the needs of high potential students from underrepresented backgrounds OUCH! The Pain of Modern Civilization Dr. Ajay Issar, Alka Issar, 2020-04-17 Isn't it ironic that information about healthy living is in such abundance yet people are more confused than ever In excess of 80% of today's healthcare costs are spent treating chronic diseases like diabetes hypertension high cholesterol heart disease cancer and obesity This is a function of our modern society characterized by Overnutrition Under activity Circadian rhythm disruption and a Hectic and stressful lifestyle or OUCH unlike any we've seen before In OUCH The Pain of Modern Civilization authors Dr Ajay Issar and Alka Issar offer a four factor model of chronic disease that not only links these behaviours with their

physical consequences but explains in detail the means of assailing them Here is a practical personalized approach aimed at health promotion and shared compellingly by way of case studies recipes and advice for exercise and creating structure in your day This book clarifies common myths about chronic disease and extends tools readers can employ in their own war against OUCH OUCH The Pain of Modern Civilization is unique for its consideration of the person as a whole and its prescription of timeless and proven solutions for optimal health This book is for anyone who cares about their well being including individuals who are already suffering from a chronic disease and those who are keen to avoid them **The Early Years** Inter-American Development Bank,Norbert Schady,2015-10-22 This book is open access under a CC BY NC ND 3 0 IGO license The Early Years analyzes the development of Latin American and Caribbean children and makes a compelling case for government intervention in what is instinctively a family affair Spending on effective programs for young children is an investment that if done well will have very high returns while failure to implement such programs will lower the returns on the hefty investments being made in primary secondary and higher education Policies for young children belong at the core of a country s development agenda alongside policies to develop infrastructure and strengthen institutions However if the services provided or funded by governments are to benefit children they must be substantially better than what is currently being delivered in the region This book offers suggestions for improving public policy in this critical area

**Exercise as a Countermeasure to Human Aging** Bradley Elliott,Lawrence D. Hayes,David C. Hughes,Martin Burtscher,2020-11-12 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org/about/contact](mailto:frontiersin.org/about/contact) Small Signal Audio Design Douglas Self,2023-12-22 Small Signal Audio Design is a highly practical handbook providing an extensive repertoire of circuits that can be assembled to make almost any type of audio system This fully revised fourth edition offers wholly new content on internally balanced audio design electret microphones emitter follower stability microphony in capacitors and much much more This book continues the engaging prose style familiar to readers as you learn why mercury filled cables are not a good idea the pitfalls of plating gold on copper and what quotes from Star Trek have to do with PCB design Learn how to make amplifiers with apparently impossibly low noise design discrete circuitry that can handle enormous signals with vanishingly low distortion transform the performance of low cost opamps build active filters with very low noise and distortion while saving money on expensive capacitors make incredibly accurate volume controls make a huge variety of audio equalisers use load synthesis to make magnetic cartridge preamplifiers that have noise so low it is limited by basic physics sum switch clip compress and route



audio signals build simple but ultra low noise power supplies be confident that phase perception is not an issue Including all the crucial theories but with minimal mathematics Small Signal Audio Design is the must have companion for anyone studying researching or working in audio engineering and audio electronics

**Principles of Metal Refining and Recycling** Thorvald Abel Engh, Geoffrey K. Sigworth, Anne Kvithyld, 2021 The book is a greatly extended update of the 1992 book Principles of Metal Refining It includes in particular the subject of metal recycling It includes metalloids like silicon ferrous and non ferrous metal refining and gives a comprehensive overview of metal production today its applications purification and recycling

**Bituminous Mixtures and Pavements VI** A. Nikolaidis, 2015-07-28 Bituminous Mixtures and Pavements contains 113 accepted papers from the 6th International Conference Bituminous Mixtures and Pavements 6th ICONFBMP Thessaloniki Greece 10-12 June 2015 The 6th ICONFBMP is organized every four years by the Highway Engineering Laboratory of the Aristotle University of Thessaloniki Greece in conjunction with

**Applied Health Economics for Public Health Practice and Research** Rhiannon Tudor Edwards, Emma McIntosh, 2019-03-14 In today's world of scarce resources determining the optimal allocation of funds to preventive health care interventions PHIs is a challenge The upfront investments needed must be viewed as long term projects the benefits of which we will experience in the future The long term positive change to PHIs from economic investment can be seen across multiple sectors such as health care education employment and beyond Applied Health Economics for Public Health Practice and Research is the fifth in the series of Handbooks in Health Economic Evaluation It presents new research on health economics methodology and application to the evaluation of public health interventions Looking at traditional as well as novel methods of economic evaluation the book covers the history of economics of public health and the economic rationale for government investment in prevention In addition it looks at principles of health economics evidence synthesis key methods of economic evaluation with accompanying case studies and much more Looking to the future Applied Health Economics for Public Health Practice and Research presents priorities for research in the field of public health economics It acknowledges the role played by natural environment in promoting better health and the place of genetics environment and socioeconomic status in determining population health Ideal for health economists public health researchers local government workers health care professionals and those responsible for health policy development Applied Health Economics for Public Health Practice and Research is an important contribution to the economic discussion of public health and resource allocation

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