

## GRADE 12 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.7) on your folio paper. Example 1.8. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A Ethanol and butane  
 B Ethanol and ethanoic acid  
 C Ethanol and propanal  
 D Ethanol and propanone
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A A constant number of electrons in the outer shell.  
 B A constant number of protons in the nucleus.  
 C An element that undergoes a particular chemical reaction.  
 D An element that forms a particular compound.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object in free fall under the influence of gravity.  
 B An object in free fall under the influence of gravity.  
 C An object in free fall under the influence of gravity.  
 D An object in free fall under the influence of gravity.
- 1.4 The inertia of an object...
- A is the same for all objects.  
 B is the same for all objects.  
 C is the same for all objects.  
 D is the same for all objects.

- 1.5 An astronaut has a weight  $E_E$  on Earth. What distance, in terms of the radius of the Earth ( $r$ ), will the astronaut be if his weight is a 1/4 of his weight ( $E_E$ ) on the surface of the Earth?
- A  $r$   
 B  $2r$   
 C  $4r$   
 D  $8r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.  
 B The box is too light.  
 C The box is too smooth.  
 D The box is too rough.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.  
 B The box is too light.  
 C The box is too smooth.  
 D The box is too rough.

[14]

### QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group in compound C and name the cation to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the:  
 2.3.1 IUPAC name of compound A. (2)  
 2.3.2 IUPAC name of compound B. (2)

# Grade 12 Physical Science Paper March 2012

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Engineering and Physical  
Sciences, Board on Energy and  
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## **Grade 12 Physical Science Paper March 2012:**

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.

**Closing the Achievement Gap from an International Perspective** Julia V. Clark, 2013-10-24 In a changing world that demands new skills, a vital concern of public education is the gap in academic performance between low and high achieving students. There is no excuse for the achievement gaps that persist among poor and minority students in schools today. All students can succeed at high levels regardless of race, ethnicity, and economic background. Several countries have successfully confronted inequities in achievement, demonstrating that any school can close achievement gaps regardless of the community they serve and that all students can achieve at high levels when they are provided with the right opportunities. This book is about understanding what factors selected countries have applied to promote progress and what factors contribute to progress in the closing of achievement gaps. It is about creating opportunities for all students. *Closing the Achievement Gap from an International Perspective: Transforming STEM for Effective Education* is written in response to rising concern for the improvement of quality education, especially in mathematics and science, provided to all students. The contributors take a systematic view of the subject, beginning with a cross-national analysis of teacher qualifications and the achievement gap that spans 50 countries. The content of the book is organized in sections describing education around the globe: North and South America, Europe, Asia, Africa, and Australia. Individual chapters offer close-up analysis of efforts to close achievement gaps in the U.S. and Canada, Mexico, England, Turkey, China, South Africa, and Australia, among many others. The contributors provide information on the achievement gap in mathematics and science, review current research, and present strategies for fostering improvement and raising performance with a focus on school-related variables that adversely affect educational outcomes among poor and minority students. The authors of the various chapters looked at how students' data correlated with classroom practices, teacher instruction, and academic programming as part of their efforts to measure student growth. Qualitative and quantitative data are provided to provide evidence not only of the problem but also for the solution. The book concludes with a chapter on promoting equality and equity to shrink the achievement gap worldwide.

**Educart NEET 37 Years Physics Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam** Educart, Dr. Rakshita Singh, 2024-07-25 **Science Teacher**

**Educators as K-12 Teachers** Michael Dias, Charles J. Eick, Laurie Brantley-Dias, 2013-07-08 Science teacher educators prepare and provide professional development for teachers at all grade levels They seek to improve conditions in classroom teaching and learning professional development and teacher recruitment and retention Science Teacher Educators as K 12 Teachers Practicing What We Teach tells the story of sixteen teacher educators who stepped away from their traditional role and entered the classroom to teach children and adolescents in public schools and informal settings It details the practical and theoretical insights that these members of the Association of Science Teacher Educators ASTE earned from experiences ranging from periodic guest teaching to full time engagement in the teaching role Science Teacher Educators as K 12 Teachers shows science teacher educators as professionals engaged in reflective analysis of their beliefs about and experiences with teaching children or adolescents science With their ideas about instruction and learning challenged these educators became more aware of the circumstances today s teachers face Their honest accounts reveal that through teaching children and adolescents teacher educators can also renew themselves and expand their identities as well as their understanding of themselves in the profession and in relation to others Science Teacher Educators as K 12 Teachers will appeal to all those with an interest in science education from teacher educators to science teachers as well as teacher educators in other disciplines Its narratives and insights may even inspire more teacher educators to envision new opportunities to serve teachers K 12 learners and the local community through a variety of teaching arrangements in public schools and informal education settings

**Educart NEET 37 Years Chemistry Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam** Educart, Dr. Rakshita Singh, 2024-07-25      [Educart NEET 37 Years Biology Solved Papers \(PYQs\) Chapterwise and Topicwise for NEET 2025 Exam](#) Educart, Dr. Rakshita Singh, 2024-07-25      **Commonsense**

**Questions about Instruction** Gerard Giordano, 2014-01-30 Parents want teachers to explain how they instruct children They become annoyed when the teachers are silent or surly Parents counter with explicit common sense questions how do teachers arouse interest design curricula reinforce discipline assign grades designate textbooks and select technology This book examines the parents questions the answers they elicited the allies they attracted and the improvements they initiated

**It From Bit or Bit From It?** Anthony Aguirre, Brendan Foster, Zeeya Merali, 2015-02-03 The essays in this book look at the question of whether physics can be based on information or as John Wheeler phrased it whether we can get It from Bit They are based on the prize winning essays submitted to the FQXi essay competition of the same name which drew over 180 entries The eighteen contributions address topics as diverse as quantum foundations entropy conservation nonlinear logic and countable spacetime Together they provide stimulating reading for all physics aficionados interested in the possible role s of information in the laws of nature The Foundational Questions Institute FQXi catalyzes supports and disseminates research on questions at the foundations of physics and cosmology particularly new frontiers and innovative ideas integral to a deep understanding of reality but unlikely to be supported by conventional funding sources      [Ecological Sustainability](#)

Robert B. Northrop, Anne N. Connor, 2016-04-19 Complex systems is a new field of science studying how parts of a system give rise to the collective behaviors of the system and how the system interacts with its environment This book examines the complex systems involved in environmental sustainability and examines the technologies involved to help mitigate human impacts such as renewable ene

**Transitions to Alternative Vehicles and Fuels** National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Transitions to Alternative Vehicles and Fuels, 2013-04-14 For a century almost all light duty vehicles LDVs have been powered by internal combustion engines operating on petroleum fuels Energy security concerns about petroleum imports and the effect of greenhouse gas GHG emissions on global climate are driving interest in alternatives Transitions to Alternative Vehicles and Fuels assesses the potential for reducing petroleum consumption and GHG emissions by 80 percent across the U S LDV fleet by 2050 relative to 2005 This report examines the current capability and estimated future performance and costs for each vehicle type and non petroleum based fuel technology as options that could significantly contribute to these goals By analyzing scenarios that combine various fuel and vehicle pathways the report also identifies barriers to implementation of these technologies and suggests policies to achieve the desired reductions Several scenarios are promising but strong and effective policies such as research and development subsidies energy taxes or regulations will be necessary to overcome barriers such as cost and consumer choice

*Teacher-Student Relationships* Ernest J. Zarra III, 2013-04-08 Why are so many public school teachers administrators and coaches choosing to become romantically and sexually involved with teenage students and players Since 2000 numbers of intimate relationships between teachers and students have skyrocketed Teacher arrests are at all time highs Is there a correlation between these relationships and communication and social technologies The book explores What is driving those in public and private education to have romantic and sexual relationships with their students and to jeopardize their careers families reputations and freedom What roles do communication and social technologies play in feeding teacher student relationships Who is protecting teenagers from predator teachers and predator coaches in our schools Is there a new phenomenon in schools The Predator Teenage Student What practical strategies can be put in place to protect teenagers from sexual predators on our campuses The appropriate educational use of communication technologies on high school campuses This book is provocative and relevant for educators at all levels public and private It is also a must read for professors teachers in training athletic and academic coaches school administrators and parents

**Interest in Mathematics and Science Learning** Ann Renninger, Martina Nieswandt, Suzanne Hidi, 2015-04-19 Interest in Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology

education     **If Einstein Ran the Schools** Thomas Armstrong Ph.D.,2019-10-11 Many world class thinkers and creators have been concerned about the state of education in the United States Discover their thoughts on how children really learn and what teachers must do to optimally tap children s latent abilities During the last three decades education reformers have pushed standardized testing and policies like No Child Left Behind and Common Core to improve test scores and proficiency in basic skills However during this period that author Thomas Armstrong calls the miseducation of America a number of troubling trends have surfaced including a decrease in creative thinking scores among children in kindergarten through third grade Rather than focus on what s wrong with the education system that has produced these outcomes Armstrong lays out what creative thinkers know about how children should be educated In an extended thought experiment he asks what would happen if we turned the reins of educational policy over not to the politicians and educational bureaucrats but to eminent thinkers and creators like Albert Einstein Pablo Picasso Martin Luther King Jr Rachel Carson Doris Lessing Jane Goodall and other seminal culture builders What might they say about the best way to educate a child If Einstein Ran the Schools suggests that the answers to this intriguing question should guide future efforts to reform our nation s schools     **Teaching Elementary STEM Education** Sherri Cianca,2019-07-19 This textbook offers practical guidelines for integrating science technology engineering and mathematics into the elementary classroom in the context of addressing real world problems and cultivating in students high level thinking and problem solving skills Designed to equip teachers and future teachers with tools to create and implement standards based STEM curriculum and cognitively demanding tasks author Sherri Cianca offers hands on easily implemented strategies that foster student reasoning autonomy and humanity This fresh approach to STEM teaching empowers teachers preservice and inservice and other leaders to better understand the standards and better design effective instructional practices The chapters work together to advance teachers abilities to achieve mastery level understanding of content translate standards into student friendly curriculum and create a robust learning environment Each chapter contains probes to uncover incomplete and inaccurate conceptions and to focus attention on key learning elements Chapter summaries and Reflect and Apply sections reinforce professional development and appendices expand on chapter content and provide rich examples of STEM units curriculum and assessment criteria Dr Cianca s vision is that teachers serve as well equipped change agents that will empower their students to transfer STEM learning into applications that will impart a positive impact on our future world     *GeNeDis 2016* Panayiotis Vlamos,2017-10-01 The 2nd World Congress on Geriatrics and Neurodegenerative Disease Research GeNeDis 2016 focuses on recent advances in geriatrics and neurodegeneration ranging from basic science to clinical and pharmaceutical developments and provides an international forum for the latest scientific discoveries medical practices and care initiatives Advanced information technologies are discussed concerning the various research implementation and policy as well as European and global issues in the funding of long term care and medico social policies regarding elderly people This volume focuses on the sessions from the conference

on computational biology and bioinformatics

**The Oxford Handbook of Social Class in Counseling** William Ming

Liu, 2013-04-26 Social class is a pervasive facet of all lives regardless of one's own social class and status. One would think its ubiquity would make it necessary for all helping professionals to understand social class and discuss it in therapy and research. Yet social class and classism are one of the most confusing and difficult concepts to understand and integrate into research and counseling practice, mostly due to the relative lack of psychological theories, research, and quantitative data. Fulfilling this need, this handbook summarizes and synthesizes available research on social class and classism in counseling practice and research areas. The 32 chapters included offer up-to-date fascinating and provocative applications of social class and classism as seasoned chapter authors provide an overview of theories related to social class and classism and its application toward research, education, training, and practice. Chapters include comprehensive coverage of lifespan issues related to social class, such as unique aspects of social class and classism in the lives of children, adolescents, and older adults; how social class is studied and empirically understood through research; assessment and practice implications of social class in career counseling, psychological assessment and diagnosis, and the therapy relationship; how social class is implicated in positive psychology, career and work psychology, and health psychology; social class and classism and its connection to whiteness, racism, sexual orientation, religion, and spirituality; and social justice. This book offers the first compendium of counseling-related resources on social class and classism and will be a comprehensive must-have reference for professionals and academics in counseling psychology and related fields for years to come.

**Novel AI Applications for Advancing Earth Sciences** Yadav, Sudesh, Yadav, Satya Prakash, Raj, Pethuru, Tiwari, Prabhakar, Albuquerque, Victor Hugo C.

de, 2023-12-29 The Earth Sciences industry faces a new challenge: the need for accurate, efficient, and reliable methods to monitor and predict geological phenomena and environmental changes. As climate change, earthquakes, and other natural disasters become more frequent and severe, the necessity for advanced tools and techniques is paramount. Traditional methods often fall short in providing the precision and speed required to address these critical issues. Geologists and earth scientists who are grappling with the urgent problem of utilizing artificial intelligence (AI) to revolutionize their field will find the solution within the pages of *Novel AI Applications for Advancing Earth Sciences*. This book offers the research community concepts expanding upon the fusion of AI technology with earth sciences. By leveraging advanced AI tools such as convolutional neural networks, support vector machines, artificial neural networks, and the potential of remote sensing satellites, this book transforms the identification of geological features, geological mapping, soil classification, and gas detection. Scientists can now predict earthquakes and assess the probability of climate change with unprecedented accuracy. Additionally, the book explains how the optimization of algorithms for specific tasks substantially reduces the time complexity of earth observations, leading to an unprecedented leap in accuracy and efficiency.

*Critical Thinking* Jonathan Haber, 2020-03-24 An insightful guide to the practice, teaching, and history of critical thinking from Aristotle and Plato to

Thomas Dewey for teachers students and anyone looking to hone their critical thinking skills Critical thinking is regularly cited as an essential 21st century skill the key to success in school and work Given the propensity to believe fake news draw incorrect conclusions and make decisions based on emotion rather than reason it might even be said that critical thinking is vital to the survival of a democratic society But what exactly is critical thinking Jonathan Haber explains how the concept of critical thinking emerged how it has been defined and how critical thinking skills can be taught and assessed Haber describes the term s origins in such disciplines as philosophy psychology and science He examines the components of critical thinking including structured thinking language skills background knowledge information literacy intellectual humility empathy and open mindedness Haber argues that the most important critical thinking issue today is that not enough people are doing enough of it Fortunately critical thinking can be taught practiced and evaluated This book offers a guide for teachers students and aspiring critical thinkers everywhere including advice for educational leaders and policy makers on how to make the teaching and learning of critical thinking an educational priority and practical reality

**Mathematical Modelling and Computational Intelligence Techniques** P. Balasubramaniam,Kuru Ratnavelu,Grienggrai Rajchakit,G. Nagamani,2022-01-13 This book collects papers presented at the International Conference on Mathematical Modelling and Computational Intelligence Techniques ICMMCIT 2021 held at the Department of Mathematics The Gandhigram Rural Institute Deemed to be University Gandhigram Tamil Nadu India from 10 12 February 2021 Significant contributions from renowned researchers from fields of applied analysis mathematical modelling and computing techniques have been received for this conference Chapters emphasize on the research of computational nature focusing on new algorithms their analysis and numerical results as well as applications in physical biological social and behavioural sciences The accepted papers are organized in topical sections as mathematical modelling image processing control theory graphs and networks and inventory control

**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



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