



GRADE 10 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 Which of the following is an example of a vector?

- A. time
- B. speed
- C. pressure
- D. mass

1.2 What can be determined by calculating the gradient of a position vs time graph?

- A. acceleration
- B. displacement
- C. velocity
- D. none of the above

Use the circuit diagram below to answer QUESTIONS 1.3 and 1.4



1.3 The voltage over the parallel resistors will be:

- A. 8V
- B. 7V
- C. 2V
- D. 3V

1.4 The current in ONE parallel branch if the resistor offered a resistance of 6Ω:

- A. 1A
- B. 4A
- C. 1.5A
- D. 3A

1.5 The equivalent unit for work is:

- A. joule per coulomb
- B. joule per second
- C. joule per ampere
- D. coulomb per second

1.6 Two waves moving in opposite directions collide with constructive interference. Wave A has an amplitude of 2 units and Wave B has an amplitude of 0.5 units. The combined wave has an amplitude of:

- A. 1.5 units
- B. 2 units
- C. 2.5 units
- D. 0.5 units

1.7 A ball with a mass of 2kg is released from a height of 20m and takes 1.2s to reach the ground. If the mass of the ball is increased to 4kg the time it takes to reach the ground will:

- A. increase
- B. decrease
- C. remain the same

1.8 A glass rod and a cloth are rubbed against each other. The glass rod becomes positively charged. Which statement best describes the reason for this?

- A. The glass rod gained protons from the cloth.
- B. The cloth gained electrons from the glass rod.
- C. The glass rod lost protons to the cloth.
- D. The cloth lost electrons to the glass rod.

Physical Science Grade 10 Paper 1 November 2013

Paul D. Groves



Physical Science Grade 10 Paper 1 November 2013:

2012-2013 Class Trip Directory Gail Velez, 2012 A directory of day overnight and travel trips for school scout and homeschool groups with themed trip lesson plans to increase the learning experiences **ICTES 2018** Robbi Rahim, Kadek Suranata, Ifdil Ifdil, Itsar Bolo Rangka, 2019-03-13 The technical program of The First ICTES 2018 consisted of 114 full papers. Aside from the high quality technical paper presentations we also held workshop and clinic manuscript that was carried out before the main track aims to strengthen the ability to write scientific publications. Coordination with the steering chairs Dr Kadek Suranata S Pd M Pd Kons and the members of organizing committee is essential for the success of the conference. We sincerely appreciate all the Advisory Boards for the constant support and guidance. It was also a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference. In particular the Scientific Committee led by Cand Dr Robbi Rahim M Kom have completed the peer review process of technical papers and made a high quality technical program. We are also grateful to Students Conference chairs were leading by Ida Ayu Made Diah Paramiswari for their support and all the authors who submitted their papers to the First ICTES 2018. We strongly believe that ICTES conference provides a good forum for all academicians, researchers and practitioners to discuss all Educational science and technology aspects that are relevant to issues and challenge for sustainability in the 4th industrial revolution. We also expect that the future ICTES conference will be as successful and stimulating as indicated by the contributions presented in this volume. **The Complete Book of Colleges, 2013 Edition** Princeton Review, 2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs, admissions requirements, financial aid, services, housing, athletics, contact names and campus life. **Food Processing** Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 **FOOD PROCESSING** Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title. Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens, environmental concerns, shelf life, quality and safety as well as the dietary needs and demands of humans. In addition to covering food processing principles that have long been essential to food quality and safety, this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics, alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry. The book is divided into two sections: the first focusing on principles of food processing and handling and the second on processing technologies and applications. As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume, this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science. **An Open Book: What and How Young Children Learn From Picture and Story Books** Jessica S. Horst, Carmel

Houston-Price,2016-01-21 Looking at and listening to picture and story books is a ubiquitous activity frequently enjoyed by many young children and their parents Well before children can read for themselves they are able to learn from books Looking at and listening to books increases children s general knowledge understanding about the world and promotes language acquisition This collection of papers demonstrates the breadth of information pre reading children learn from books and increases our understanding of the social and cognitive mechanisms that support this learning Our hope is that this Research Topic eBook will be useful for researchers as well as educational practitioners and parents who are interested in optimizing children s learning The Extinction of Experience Christine Rosen,2024-09-10 An Esquire Best Book of 2024 A reflective original invitation to recover and cultivate the human experiences that have atrophied in our virtual world We embraced the mediated life from Facetune and Venmo to meme culture and the Metaverse because these technologies offer novelty and convenience But they also transform our sense of self and warp the boundaries between virtual and real What are the costs Who are we in a disembodied world In The Extinction of Experience Christine Rosen investigates the cultural and emotional shifts that accompany our embrace of technology In warm philosophical prose Rosen reveals key human experiences at risk of going extinct including face to face communication sense of place authentic emotion and even boredom Considering cultural trends like TikTok challenges and mukbang and politically unsettling phenomena like sociometric trackers and online conspiracy culture Rosen exposes an unprecedented shift in the human condition one that habituates us to alienation and control To recover our humanity and come back to the real world we must reclaim serendipity community patience and risk **Organization and Administration of Physical Education** Jayne D. Greenberg,Judy L. LoBianco,2025-03-25 Organization and Administration of Physical Education Second Edition is fully updated with the revised SHAPE America National Physical Education Standards and culturally responsive teaching practices PE administrators will learn solid foundational theory and practices to implement successful programs Minerals Yearbook Geological Survey,Interior Department,Mines Bureau,2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary **Minerals Yearbook** Geological Survey,Interior Department,Mines Bureau,2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary Superminds Thomas W. Malone,2018-05-15 From the founding director of the MIT Center for Collective Intelligence comes a fascinating look at the remarkable capacity for intelligence exhibited by groups of people and computers working together If you re like most people you probably believe that humans are the most intelligent animals on our planet But there s another kind of entity that can be far smarter groups of people In this groundbreaking book Thomas Malone the founding director of the MIT Center for Collective

Intelligence shows how groups of people working together in superminds like hierarchies markets democracies and communities have been responsible for almost all human achievements in business government science and beyond And these collectively intelligent human groups are about to get much smarter Using dozens of striking examples and case studies Malone shows how computers can help create more intelligent superminds simply by connecting humans to one another in a variety of rich new ways And although it will probably happen more gradually than many people expect artificially intelligent computers will amplify the power of these superminds by doing increasingly complex kinds of thinking Together these changes will have far reaching implications for everything from the way we buy groceries and plan business strategies to how we respond to climate change and even for democracy itself By understanding how these collectively intelligent groups work we can learn how to harness their genius to achieve our human goals Drawing on cutting edge science and insights from a remarkable range of disciplines Superminds articulates a bold and utterly fascinating picture of the future that will change the ways you work and live both with other people and with computers

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light duty vehicle fleet is expected to undergo substantial technological changes over the next several decades New powertrain designs alternative fuels advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards By the end of the next decade cars and light duty trucks will be more fuel efficient weigh less emit less air pollutants have more safety features and will be more expensive to purchase relative to current vehicles Though the gasoline powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030 such vehicles will be equipped with advanced technologies materials electronics and controls and aerodynamics And by 2030 the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation including autonomous vehicles will be well underway What are these new technologies how will they work and will some technologies be more effective than others Written to inform The United States Department of Transportation s National Highway Traffic Safety Administration NHTSA and Environmental Protection Agency EPA Corporate Average Fuel Economy CAFE and greenhouse gas GHG emission standards this new report from the National Research Council is a technical evaluation of costs benefits and implementation issues of fuel reduction technologies for next generation light duty vehicles *Cost Effectiveness and Deployment of Fuel Economy Technologies for Light Duty Vehicles* estimates the cost potential efficiency improvements and barriers to commercial deployment of technologies that might be employed from 2020 to 2030 This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017 2025 CAFE standards

Future of AI in Medical Imaging Sharma, Avinash Kumar, Chanderwal, Nitin, Tyagi,

Shobhit, Upadhyay, Prashant, 2024-03-11 Academic scholars and professionals are currently grappling with hurdles in optimizing diagnostic processes as traditional methodologies prove insufficient in managing the intricate and voluminous nature of medical data. The diverse range of imaging techniques spanning from endoscopy to magnetic resonance imaging necessitates a more unified and efficient approach. This complexity has created a pressing need for streamlined methodologies and innovative solutions. Academic scholars find themselves at the forefront of addressing these challenges, seeking ways to leverage AI's full potential in improving the accuracy of medical imaging diagnostics and consequently enhancing overall patient outcomes. Future of AI in Medical Imaging stands as a solution to the challenges faced by academic scholars in the realm of medical imaging. The book lays a solid groundwork for understanding the complexities of medical imaging systems. Through an exploration of various imaging modalities, it not only addresses the current issues but also serves as a guide for scholars to navigate the landscape of AI-integrated medical diagnostics. This collaborative effort not only illuminates the existing hurdles of medical imaging but also looks towards a future where AI-driven diagnostics and personalized medicine become indispensable tools, significantly elevating patient outcomes. *Diverse educational contexts and research on metacognition and motivation to enhance self-directed learning* Bernadette Geduld, Byron J. Bunt, Divan Jagals, 2025-02-17 This scholarly book explores the latest education research on metacognition and self-directed learning, providing practical insights for educators and students. As the thirteenth volume in the NWU Self-Directed Learning Series, it focuses on developing metacognitive skills to enhance self-regulation, motivation, and independent thinking, key competencies for success in the 21st century. Metacognition plays a vital role in learning, helping students plan, evaluate, and self-assess their progress. Research shows that students with strong metacognitive strategies achieve better learning outcomes, apply knowledge effectively, and persist through academic challenges. This book offers evidence-based teaching strategies to support the development of self-regulated learning and motivation in diverse educational settings. It examines teaching behaviour and instructional methods that foster metacognitive growth in both basic and higher education. With a particular focus on the South African education landscape, it extends research in cognitive, developmental, and applied psychology. Researchers and educators will find practical approaches for integrating metacognition into various disciplines, making this book a valuable resource for both undergraduate and graduate education programmes. Learning, Marginalization, and Improving the Quality of Education in Low-income Countries Daniel A. Wagner, Nathan M. Castillo, Suzanne Grant Lewis, 2022-02-21 Improving learning evidence and outcomes for those most in need in developing countries is at the heart of the United Nations Sustainable Development Goal on Education, SDG4. This timely volume brings together contributions on current empirical research and analysis of emerging trends that focus on improving the quality of education through better policy and practice, particularly for those who need improved learning at the bottom of the pyramid, LBOP. This volume brings together academic research experts, government officials, and field-based practitioners. National and global experts present

multiple broad thematic papers ranging from the effects of migration and improving teaching to the potential of educational technologies and better metrics for understanding and financing education In addition local experts practitioners and policymakers describe their own work on LBOP issues being undertaken in Kenya India Mexico and Ivory Coast The contributors argue persuasively that learning equity is a moral imperative but also one that will have educational economic and social impacts They further outline how achieving SDG4 will take renewed and persistent effort by stakeholders to use better measurement tools to promote learning achievement among poor and marginalized children This volume builds on the second international conference on Learning at the Bottom of the Pyramid LBOP2 It will be an indispensable resource for policymakers researchers and government thinktanks and local experts as well as any readers interested in the implementation of learning equity across the globe The first volume Learning at the Bottom of the Pyramid LBOP1 may be obtained at <http://www.iiep.unesco.org/en/learning-bottom-pyramid> 4608

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

Food Storage, Spoilage and Shelf Life: Recent Developments and Insights Shalini Gaur Rudra, Santanu Basu, Anindya Chanda, 2022-08-29

Industrial Arene Chemistry Jacques Mortier, 2023-03-17 Industrial Arene Chemistry Explore the wide array of uses for aromatic hydrocarbons in this comprehensive reference Aromatics are a class of compounds normally but not exclusively organic which tend to be produced as by products of various industrial processes Their importance as petrochemical materials in themselves along with the range of inter relations between different aromatic chemicals creates a complex and opportunity filled market for aromatics Industrial Arene Chemistry provides a thorough look at the conventional techniques required to use and produce these aromatic hydrocarbons Beginning with an overview of the global aromatic market including but not limited to manufacturers markets of BTX and downstream functional aromatics aromatics derived from renewable sources and economic forecasts the book will also explore the impact shifting environmental factors will have on the future of aromatic chemistry The text further explores BTX production processes differentiated according to the raw materials used Importantly this will establish the importance and growth of the biobased

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Taylor's 7th Teaching and Learning Conference 2014 Proceedings Siew Fun Tang, Loshinikarasi Logonnathan, 2015-06-01 These conference proceedings showcase a rich and practical exchange of approaches and vital evidence based practices taking place around the world They clarify the complex challenges involved in bringing about a holistic educational environment in schools and institutes of higher learning that fosters greater understanding and offer valuable insights on how to avoid the pitfalls that come with rolling out holistic approaches to education To do so the proceedings focus on the subthemes Support and Development Mobility and Diversity and Networking and Collaboration in Holistic Education

An Integrated Play-based Curriculum for Young Children Olivia N. Saracho, 2013-03-01 Play provides young children with the opportunity to express their ideas symbolize and test their knowledge of the world It provides the basis for inquiry in literacy science social studies mathematics art music and movement Through play young children become active learners engaged in explorations about themselves their community and their personal social world An Integrated Play Based Curriculum for Young Children offers the theoretical framework for understanding the origins of an early childhood play based curriculum and how young children learn and understand concepts in a social and physical environment Distinguished author Olivia N Saracho then explores how play fits into various curriculum areas in order to help teachers develop their early childhood curriculum using developmentally and culturally appropriate practice Through this integrated approach young children are able to actively engage in meaningful and functional experiences in their natural context Special Features Include Vignettes of children s conversations and actions in the classroom Suggestions for activities and classroom materials Practical examples and guidelines End of chapter summaries to enhance and extend the reader s understanding of young children By presenting appropriate theoretical practices for designing and implementing a play based curriculum An Integrated Play Based Curriculum for Young Children offers pre service teachers the foundational knowledge about the field about the work that practitioners do with young children and how to best assume a teacher s role effectively

Principles of GNSS, Inertial, and Multisensor Integrated Navigation Systems, Second Edition Paul D. Groves, 2013-04-01 This newly revised and greatly expanded edition of the popular Artech House book Principles of GNSS Inertial and Multisensor Integrated Navigation Systems offers you a current and comprehensive understanding of satellite navigation inertial navigation terrestrial radio navigation dead reckoning and environmental feature matching It provides both an introduction to navigation systems and an in depth

treatment of INS GNSS and multisensor integration The second edition offers a wealth of added and updated material including a brand new chapter on the principles of radio positioning and a chapter devoted to important applications in the field Other updates include expanded treatments of map matching image based navigation attitude determination acoustic positioning pedestrian navigation advanced GNSS techniques and several terrestrial and short range radio positioning technologies The book shows you how satellite inertial and other navigation technologies work and focuses on processing chains and error sources In addition you get a clear introduction to coordinate frames multi frame kinematics Earth models gravity Kalman filtering and nonlinear filtering Providing solutions to common integration problems the book describes and compares different integration architectures and explains how to model different error sources You get a broad and penetrating overview of current technology and are brought up to speed with the latest developments in the field including context dependent and cooperative positioning

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