



GRADE 9 NATURAL SCIENCES NOVEMBER EXAMINATION

SECTION A QUESTION 1

1.1 Various options are provided as answers to the following questions. Choose

the correct answer and write ONLY the LETTER(A-D) next to the QUESTION NUMBER (1.1.1-1.1.10) on your answer sheet, for example 1.1.11 D.

1.1.1 If cells are added in parallel the total voltage will...

- A Increase
- B Decrease
- C Remain the same
- D Increase then decrease

1.1.2 Why do we use copper in our house's wiring?

- A Good insulator
- B Good and cheap conductor
- C Good, but expensive conductor
- D Good and cheap insulator

1.1.3 The energy conversion that takes place in a cell:

- A chemical → electrical → kinetic
- B electrical → chemical → kinetic
- C chemical → electrical
- D chemical → kinetic

1.1.4 Koeberg is this type of power station:

- A Coal
- B Hydroelectricity
- C Nuclear
- D Solar

1.1.5 An example of a wet cell:

- A torch
- B radios
- C car battery
- D toys

1.1.6 Example of converting wasted energy to useful energy:

- A Filament lightbulbs
- B Heating elements
- C Buzzers
- D Electrical motors

1.1.7 As the altitude increase the ... will decrease.

- A Temperature
- B Mass
- C Density
- D Distance

1.1.8 Which of the following is NOT a greenhouse gas?

- A CH₄
- B water vapour
- C H₂O
- D carbon dioxide

1.1.9 The reason why thicker wires offer lower resistance is...

- A there is less space for protons to move.
- B there is more space for the protons to move.
- C there is less space for the electrons to move.
- D there is more space for the electrons to move.

1.1.10 Factor that affects the magnitude of gravitational force:

- A Mass
- B Weight
- C Height
- D None of the above.

(10x1)

1.2 Provide the correct TERM for the following descriptions. Write ONLY the correct

TERM next to the QUESTION NUMBER (1.2.1-1.2.7) on your answer sheet.

1.2.1 Solution that can conduct electricity

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Jennifer E. Lawson



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International Symposium on Fuzzy Systems, Knowledge Discovery and Natural Computation (FSKD 2014) Defu Zhang, Xiamen University, China, 2014-09-02 ICNC FSKD is a premier international forum for scientists and researchers to present the state of the art of data mining and intelligent methods inspired from nature particularly biological linguistic and physical systems with applications to computers circuits systems control communications and more This is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging problems

International Research in Education Sciences VII Murat Demirekin, 2024-02-03 *Algorithmic Aspects in Information and Management* Qianping Gu, Pavol Hell, Boting Yang, 2014-06-10 This volume constitutes the proceedings of the International Conference on Algorithmic Aspects in Information and Management AAIM 2014 held in Vancouver BC Canada in July 2014 The 30 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 45 submissions The topics cover most areas in discrete algorithms and their applications

Hands-On Science and Technology for Ontario, Grade 4 Jennifer E. Lawson, 2020-09-07 Experienced educators share their best classroom tested ideas in this teacher friendly activity based resource The grade 4 book is divided into four units Habitats and Communities Pulleys and Gears Light and Sound Rocks and Minerals STAND OUT COMPONENTS custom written for the Ontario curriculum uses an inquiry based scientific and technological approach builds understanding of Indigenous knowledge and perspectives TIME SAVING COST EFFECTIVE FEATURES includes resources for both teachers and students a four part instructional process activate action consolidate and debrief enhance an emphasis on technology sustainability and personalized learning a fully developed assessment plan for assessment for as and of learning a focus on real life technological problem solving learning centres that focus on multiple intelligences and universal design for learning UDL land based learning activities and Makerspace centres access to digital image banks and digital reproducibles Find download instructions in the Appendix of the book

STEM Education Across the Learning Continuum Amy MacDonald, Lena Danaia, Steve Murphy, 2020-02-18 This is the first comprehensive book to consider STEM education from early childhood through to senior secondary education It approaches STEM as a form of real world problem based education that draws on the knowledge and skills of the science technology engineering and mathematics disciplines Rather than presenting each of the separate disciplines to an equal extent it focuses on STEM researchers perspectives on how their work contributes to effective STEM education in terms of building knowledge skills and engagement Gathering contributions by authors from various countries the book explores effective STEM education from a range of perspectives within the international context Moreover it addresses critical issues in STEM education including transition and trajectories gender rurality socioeconomic status and cultural diversity By doing so it not only shares the current state of knowledge in this field but also offers a source of inspiration for future research

Environment, Energy

and Applied Technology Wen-Pei Sung, Jimmy C.M. Kao, 2015-01-29 This proceedings volume brings together selected peer reviewed papers presented at the 2014 International Conference on Frontier of Energy and Environment Engineering Topics covered include energy efficiency and energy management energy exploration and exploitation power generation technologies water pollution and protection air pollution and *Handbook of Automated Scoring* Duanli Yan, André A. Rupp, Peter W. Foltz, 2020-02-26 Automated scoring engines require a careful balancing of the contributions of technology NLP psychometrics artificial intelligence and the learning sciences The present handbook is evidence that the theories methodologies and underlying technology that surround automated scoring have reached maturity and that there is a growing acceptance of these technologies among experts and the public From the Foreword by Alina von Davier ACTNext Senior Vice President Handbook of Automated Scoring Theory into Practice provides a scientifically grounded overview of the key research efforts required to move automated scoring systems into operational practice It examines the field of automated scoring from the viewpoint of related scientific fields serving as its foundation the latest developments of computational methodologies utilized in automated scoring and several large scale real world applications of automated scoring for complex learning and assessment systems The book is organized into three parts that cover 1 theoretical foundations 2 operational methodologies and 3 practical illustrations each with a commentary In addition the handbook includes an introduction and synthesis chapter as well as a cross chapter glossary **Testing and Evaluation of Inorganic Materials IV** Yi Wang Bao, Dan Yu Jiang, Jiang Hong Gong, 2013-11-08 Selected peer reviewed papers from the Fourth Annual Meeting on Testing and Evaluation of Inorganic Materials June 7 9 2013 Guilin China *Research in Education*, 1969-05 Leadership and Nursing Care Management - E-Book Diane Huber, 2013-10-01 Uniquely organized around the AONE competencies this trusted resource gives you an easy to understand in depth look at today's most prevalent nursing leadership and management topics Coverage features the most up to date research based blend of practice and theory related to topics such as the nursing professional's role in law and ethics staffing and scheduling delegation cultural considerations care management human resources outcomes management safe work environments preventing employee injury and time and stress management UNIQUE Chapters divided according to AONE competencies for nurse leaders managers and executives Research Notes in each chapter summarize relevant nursing leadership and management studies and highlight practical applications of research findings Case Studies at the end of each chapter present real world leadership and management situations and illustrate how key concepts can be applied to actual practice Critical Thinking Questions at the end of each chapter present clinical situations followed by critical thinking questions to help you reflect on chapter content critically analyze the information and apply it to the situation A new Patient Acuity chapter uses evidence based tools to discuss how patient acuity measurement can be done in ways that are specific to nursing A reader friendly format breaks key content into easy to scan bulleted lists Chapters are divided according to the AONE competencies for

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