



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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Lombard Ld.,O. Lombard



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To Look Closely Laurie Rubin, 2013 Laurie invites you to join her class of twenty one second graders as they visit a small stream in the woods behind a suburban elementary school and she shares her reflections on class discussions activities and learning experiences From setting a tone of inquiry based thinking in the classroom to suggesting specific units of study for reading writing and science Laurie guides teachers step by step through the basics of how to integrate the skills acquired through nature study into every subject You will also discover all the ways this purposeful work nurtures green citizens who grow up determined to value and protect the natural environment

Handbook of Child Psychology and Developmental Science, Cognitive Processes, 2015-03-31 The essential reference for human development theory updated and reconceptualized The Handbook of Child Psychology and Developmental Science a four volume reference is the field defining work to which all others are compared First published in 1946 and now in its Seventh Edition the Handbook has long been considered the definitive guide to the field of developmental science Volume 2 Cognitive Processes describes cognitive development as a relational phenomenon that can be studied only as part of a larger whole of the person and context relational system that sustains it In this volume specific domains of cognitive development are contextualized with respect to biological processes and sociocultural contexts Furthermore key themes and issues e g the importance of symbolic systems and social understanding are threaded across multiple chapters although every each chapter is focused on a different domain within cognitive development Thus both within and across chapters the complexity and interconnectivity of cognitive development are well illuminated Learn about the inextricable intertwining of perceptual development motor development emotional development and brain development Understand the complexity of cognitive development without misleading simplification reducing cognitive development to its biological substrates or viewing it as a passive socialization process Discover how each portion of the developmental process contributes to subsequent cognitive development Examine the multiple processes such as categorizing reasoning thinking decision making and judgment that comprise cognition The scholarship within this volume and as well across the four volumes of this edition illustrate that developmental science is in the midst of a very exciting period There is a paradigm shift that involves increasingly greater understanding of how to describe explain and optimize the course of human life for diverse individuals living within diverse contexts This Handbook is the definitive reference for educators policy makers researchers students and practitioners in human development psychology sociology anthropology and neuroscience

Drawing for Science Education Phyllis Katz, 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and

models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning

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 *Journal of Psychology in Africa* ,2009 *Viva Natural Sciences* Lombard Ld.,O. Lombard,2006

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