



## 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 CH<sub>4</sub>
- B water vapour
- C H<sub>2</sub>O
- 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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**David Kirk**



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## **Table of Contents Natural Science Question Paper November 2013 Grade 9**

1. Understanding the eBook Natural Science Question Paper November 2013 Grade 9
  - The Rise of Digital Reading Natural Science Question Paper November 2013 Grade 9
  - Advantages of eBooks Over Traditional Books
2. Identifying Natural Science Question Paper November 2013 Grade 9
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Natural Science Question Paper November 2013 Grade 9
  - User-Friendly Interface
4. Exploring eBook Recommendations from Natural Science Question Paper November 2013 Grade 9
  - Personalized Recommendations

- Natural Science Question Paper November 2013 Grade 9 User Reviews and Ratings
- Natural Science Question Paper November 2013 Grade 9 and Bestseller Lists
- 5. Accessing Natural Science Question Paper November 2013 Grade 9 Free and Paid eBooks
  - Natural Science Question Paper November 2013 Grade 9 Public Domain eBooks
  - Natural Science Question Paper November 2013 Grade 9 eBook Subscription Services
  - Natural Science Question Paper November 2013 Grade 9 Budget-Friendly Options
- 6. Navigating Natural Science Question Paper November 2013 Grade 9 eBook Formats
  - ePub, PDF, MOBI, and More
  - Natural Science Question Paper November 2013 Grade 9 Compatibility with Devices
  - Natural Science Question Paper November 2013 Grade 9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Natural Science Question Paper November 2013 Grade 9
  - Highlighting and Note-Taking Natural Science Question Paper November 2013 Grade 9
  - Interactive Elements Natural Science Question Paper November 2013 Grade 9
- 8. Staying Engaged with Natural Science Question Paper November 2013 Grade 9
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Natural Science Question Paper November 2013 Grade 9
- 9. Balancing eBooks and Physical Books Natural Science Question Paper November 2013 Grade 9
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Natural Science Question Paper November 2013 Grade 9
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Natural Science Question Paper November 2013 Grade 9
  - Setting Reading Goals Natural Science Question Paper November 2013 Grade 9
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Natural Science Question Paper November 2013 Grade 9
  - Fact-Checking eBook Content of Natural Science Question Paper November 2013 Grade 9

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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