



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.

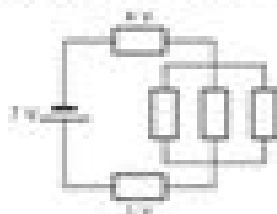
1.1 Which of the following is an example of a vector?

- 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 0.5Ω:

- 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.

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Scott C. Dulebohn



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Table of Contents November 2013 Physical Science Paper 1 Memorandum

1. Understanding the eBook November 2013 Physical Science Paper 1 Memorandum
 - The Rise of Digital Reading November 2013 Physical Science Paper 1 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2013 Physical Science Paper 1 Memorandum
 - 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 November 2013 Physical Science Paper 1 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2013 Physical Science Paper 1 Memorandum
 - Personalized Recommendations

- November 2013 Physical Science Paper 1 Memorandum User Reviews and Ratings
- November 2013 Physical Science Paper 1 Memorandum and Bestseller Lists
- 5. Accessing November 2013 Physical Science Paper 1 Memorandum Free and Paid eBooks
 - November 2013 Physical Science Paper 1 Memorandum Public Domain eBooks
 - November 2013 Physical Science Paper 1 Memorandum eBook Subscription Services
 - November 2013 Physical Science Paper 1 Memorandum Budget-Friendly Options
- 6. Navigating November 2013 Physical Science Paper 1 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2013 Physical Science Paper 1 Memorandum Compatibility with Devices
 - November 2013 Physical Science Paper 1 Memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2013 Physical Science Paper 1 Memorandum
 - Highlighting and Note-Taking November 2013 Physical Science Paper 1 Memorandum
 - Interactive Elements November 2013 Physical Science Paper 1 Memorandum
- 8. Staying Engaged with November 2013 Physical Science Paper 1 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2013 Physical Science Paper 1 Memorandum
- 9. Balancing eBooks and Physical Books November 2013 Physical Science Paper 1 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2013 Physical Science Paper 1 Memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine November 2013 Physical Science Paper 1 Memorandum
 - Setting Reading Goals November 2013 Physical Science Paper 1 Memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of November 2013 Physical Science Paper 1 Memorandum
 - Fact-Checking eBook Content of November 2013 Physical Science Paper 1 Memorandum

- 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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