



**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.

# Physical Sciences Physics Paper November 2012

## Memorandum

**P.S. Westine, F.T. Dodge, W.E. Baker**



**Physical Sciences Physics Paper November 2012 Memorandum:**

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### **Table of Contents Physical Sciences Physics Paper November 2012 Memorandum**

1. Understanding the eBook Physical Sciences Physics Paper November 2012 Memorandum
  - The Rise of Digital Reading Physical Sciences Physics Paper November 2012 Memorandum
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences Physics Paper November 2012 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 Physical Sciences Physics Paper November 2012 Memorandum
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences Physics Paper November 2012 Memorandum

- Personalized Recommendations
  - Physical Sciences Physics Paper November 2012 Memorandum User Reviews and Ratings
  - Physical Sciences Physics Paper November 2012 Memorandum and Bestseller Lists
5. Accessing Physical Sciences Physics Paper November 2012 Memorandum Free and Paid eBooks
- Physical Sciences Physics Paper November 2012 Memorandum Public Domain eBooks
  - Physical Sciences Physics Paper November 2012 Memorandum eBook Subscription Services
  - Physical Sciences Physics Paper November 2012 Memorandum Budget-Friendly Options
6. Navigating Physical Sciences Physics Paper November 2012 Memorandum eBook Formats
- ePub, PDF, MOBI, and More
  - Physical Sciences Physics Paper November 2012 Memorandum Compatibility with Devices
  - Physical Sciences Physics Paper November 2012 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Physical Sciences Physics Paper November 2012 Memorandum
  - Highlighting and Note-Taking Physical Sciences Physics Paper November 2012 Memorandum
  - Interactive Elements Physical Sciences Physics Paper November 2012 Memorandum
8. Staying Engaged with Physical Sciences Physics Paper November 2012 Memorandum
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Sciences Physics Paper November 2012 Memorandum
9. Balancing eBooks and Physical Books Physical Sciences Physics Paper November 2012 Memorandum
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Sciences Physics Paper November 2012 Memorandum
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Sciences Physics Paper November 2012 Memorandum
- Setting Reading Goals Physical Sciences Physics Paper November 2012 Memorandum
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Sciences Physics Paper November 2012 Memorandum

- Fact-Checking eBook Content of Physical Sciences Physics Paper November 2012 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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