



**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 10.0Ω

- 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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Thomas Griffiths



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Table of Contents Grade Physics Paper November Exemplar And Memo

1. Understanding the eBook Grade Physics Paper November Exemplar And Memo
 - The Rise of Digital Reading Grade Physics Paper November Exemplar And Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Physics Paper November Exemplar And Memo
 - 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 Grade Physics Paper November Exemplar And Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Physics Paper November Exemplar And Memo
 - Personalized Recommendations
 - Grade Physics Paper November Exemplar And Memo User Reviews and Ratings
 - Grade Physics Paper November Exemplar And Memo and Bestseller Lists

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