



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 6Ω:

- 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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RC Schank



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The Extinction of Experience Christine Rosen,2024-09-10 An Esquire Best Book of 2024 A reflective original invitation to recover and cultivate the human experiences that have atrophied in our virtual world We embraced the mediated life from Facetune and Venmo to meme culture and the Metaverse because these technologies offer novelty and convenience But they also transform our sense of self and warp the boundaries between virtual and real What are the costs Who are we in a disembodied world In *The Extinction of Experience* Christine Rosen investigates the cultural and emotional shifts that accompany our embrace of technology In warm philosophical prose Rosen reveals key human experiences at risk of going extinct including face to face communication sense of place authentic emotion and even boredom Considering cultural trends like TikTok challenges and mukbang and politically unsettling phenomena like sociometric trackers and online conspiracy culture Rosen exposes an unprecedented shift in the human condition one that habituates us to alienation and control To recover our humanity and come back to the real world we must reclaim serendipity community patience and risk

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Table of Contents Physical Science Grade 12013 November Paper 1

1. Understanding the eBook Physical Science Grade 12013 November Paper 1
 - The Rise of Digital Reading Physical Science Grade 12013 November Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 12013 November Paper 1
 - 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 Science Grade 12013 November Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 12013 November Paper 1

- Personalized Recommendations
 - Physical Science Grade 12013 November Paper 1 User Reviews and Ratings
 - Physical Science Grade 12013 November Paper 1 and Bestseller Lists
5. Accessing Physical Science Grade 12013 November Paper 1 Free and Paid eBooks
 - Physical Science Grade 12013 November Paper 1 Public Domain eBooks
 - Physical Science Grade 12013 November Paper 1 eBook Subscription Services
 - Physical Science Grade 12013 November Paper 1 Budget-Friendly Options
 6. Navigating Physical Science Grade 12013 November Paper 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade 12013 November Paper 1 Compatibility with Devices
 - Physical Science Grade 12013 November Paper 1 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade 12013 November Paper 1
 - Highlighting and Note-Taking Physical Science Grade 12013 November Paper 1
 - Interactive Elements Physical Science Grade 12013 November Paper 1
 8. Staying Engaged with Physical Science Grade 12013 November Paper 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade 12013 November Paper 1
 9. Balancing eBooks and Physical Books Physical Science Grade 12013 November Paper 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade 12013 November Paper 1
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science Grade 12013 November Paper 1
 - Setting Reading Goals Physical Science Grade 12013 November Paper 1
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science Grade 12013 November Paper 1

- Fact-Checking eBook Content of Physical Science Grade 12013 November Paper 1
- 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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