

## GRADE 11 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 An example of a vector quantity:
- velocity
  - displacement
  - speed
  - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
  - applied force
  - gravity
  - normal force
- 1.3 Two forces  $F_1$  and  $F_2$  have a net force of 100N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of  $F_1$  and  $F_2$  will be:
- 70N and 30N
  - 100N and 0N
  - 60N and 40N
  - 80N and 20N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 5V
  - 7V
  - 2V
  - 3V
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20Ω:
- 10Ω
  - 4/3Ω
  - 3Ω
  - 6Ω
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
  - frictional force is more than 200N
  - frictional force is less than 200N
  - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole **P**. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point **X**?

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	up and down inside the coil	North
C	into the coil	South
D	up and down inside the coil	South

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### **Table of Contents Physics Paper 1 Grade 11 November 2013**

1. Understanding the eBook Physics Paper 1 Grade 11 November 2013
  - The Rise of Digital Reading Physics Paper 1 Grade 11 November 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Paper 1 Grade 11 November 2013
  - 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 Physics Paper 1 Grade 11 November 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Paper 1 Grade 11 November 2013
  - Personalized Recommendations

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

- 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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