



## 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
  - 20
  - 30
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20:
- 100
  - 4/50
  - 50
  - 60
- 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

# Grade 11 Physical Sciences Paper 1 November 2014

## Memo

**Xiaolong Qi**



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### **Table of Contents Grade 11 Physical Sciences Paper 1 November 2014 Memo**

1. Understanding the eBook Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - The Rise of Digital Reading Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Physical Sciences Paper 1 November 2014 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 11 Physical Sciences Paper 1 November 2014 Memo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Personalized Recommendations

- Grade 11 Physical Sciences Paper 1 November 2014 Memo User Reviews and Ratings
- Grade 11 Physical Sciences Paper 1 November 2014 Memo and Bestseller Lists
- 5. Accessing Grade 11 Physical Sciences Paper 1 November 2014 Memo Free and Paid eBooks
  - Grade 11 Physical Sciences Paper 1 November 2014 Memo Public Domain eBooks
  - Grade 11 Physical Sciences Paper 1 November 2014 Memo eBook Subscription Services
  - Grade 11 Physical Sciences Paper 1 November 2014 Memo Budget-Friendly Options
- 6. Navigating Grade 11 Physical Sciences Paper 1 November 2014 Memo eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 11 Physical Sciences Paper 1 November 2014 Memo Compatibility with Devices
  - Grade 11 Physical Sciences Paper 1 November 2014 Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Highlighting and Note-Taking Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Interactive Elements Grade 11 Physical Sciences Paper 1 November 2014 Memo
- 8. Staying Engaged with Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 11 Physical Sciences Paper 1 November 2014 Memo
- 9. Balancing eBooks and Physical Books Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 11 Physical Sciences Paper 1 November 2014 Memo
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Setting Reading Goals Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 11 Physical Sciences Paper 1 November 2014 Memo
  - Fact-Checking eBook Content of Grade 11 Physical Sciences Paper 1 November 2014 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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