



## 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 **B**?

	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

# Physical Science Memorandum March 2015 Grade 11

**M Carnoy**



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## **Table of Contents Physical Science Memorandum March 2015 Grade 11**

1. Understanding the eBook Physical Science Memorandum March 2015 Grade 11
  - The Rise of Digital Reading Physical Science Memorandum March 2015 Grade 11
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Memorandum March 2015 Grade 11
  - 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 Memorandum March 2015 Grade 11
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Memorandum March 2015 Grade 11
  - Personalized Recommendations
  - Physical Science Memorandum March 2015 Grade 11 User Reviews and Ratings

- Physical Science Memorandum March 2015 Grade 11 and Bestseller Lists
- 5. Accessing Physical Science Memorandum March 2015 Grade 11 Free and Paid eBooks
  - Physical Science Memorandum March 2015 Grade 11 Public Domain eBooks
  - Physical Science Memorandum March 2015 Grade 11 eBook Subscription Services
  - Physical Science Memorandum March 2015 Grade 11 Budget-Friendly Options
- 6. Navigating Physical Science Memorandum March 2015 Grade 11 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Memorandum March 2015 Grade 11 Compatibility with Devices
  - Physical Science Memorandum March 2015 Grade 11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Memorandum March 2015 Grade 11
  - Highlighting and Note-Taking Physical Science Memorandum March 2015 Grade 11
  - Interactive Elements Physical Science Memorandum March 2015 Grade 11
- 8. Staying Engaged with Physical Science Memorandum March 2015 Grade 11
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Memorandum March 2015 Grade 11
- 9. Balancing eBooks and Physical Books Physical Science Memorandum March 2015 Grade 11
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Memorandum March 2015 Grade 11
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Memorandum March 2015 Grade 11
  - Setting Reading Goals Physical Science Memorandum March 2015 Grade 11
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Memorandum March 2015 Grade 11
  - Fact-Checking eBook Content of Physical Science Memorandum March 2015 Grade 11
  - 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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