



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
 - 120N and 20N
 - 60N and 40N
 - 80N and 40N

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
 - 20V
 - 30V
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20Ω:
- 10Ω
 - 4/3Ω
 - 30Ω
 - 60Ω
- 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

2014 Physics Grade11 Paper1 November Exemplar

Kathleen Armour



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Table of Contents 2014 Physics Grade11 Paper1 November Exemplar

1. Understanding the eBook 2014 Physics Grade11 Paper1 November Exemplar
 - The Rise of Digital Reading 2014 Physics Grade11 Paper1 November Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying 2014 Physics Grade11 Paper1 November Exemplar
 - 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 2014 Physics Grade11 Paper1 November Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2014 Physics Grade11 Paper1 November Exemplar
 - Personalized Recommendations
 - 2014 Physics Grade11 Paper1 November Exemplar User Reviews and Ratings
 - 2014 Physics Grade11 Paper1 November Exemplar and Bestseller Lists

5. Accessing 2014 Physics Grade11 Paper1 November Exemplar Free and Paid eBooks
 - 2014 Physics Grade11 Paper1 November Exemplar Public Domain eBooks
 - 2014 Physics Grade11 Paper1 November Exemplar eBook Subscription Services
 - 2014 Physics Grade11 Paper1 November Exemplar Budget-Friendly Options
6. Navigating 2014 Physics Grade11 Paper1 November Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - 2014 Physics Grade11 Paper1 November Exemplar Compatibility with Devices
 - 2014 Physics Grade11 Paper1 November Exemplar Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2014 Physics Grade11 Paper1 November Exemplar
 - Highlighting and Note-Taking 2014 Physics Grade11 Paper1 November Exemplar
 - Interactive Elements 2014 Physics Grade11 Paper1 November Exemplar
8. Staying Engaged with 2014 Physics Grade11 Paper1 November Exemplar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2014 Physics Grade11 Paper1 November Exemplar
9. Balancing eBooks and Physical Books 2014 Physics Grade11 Paper1 November Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2014 Physics Grade11 Paper1 November Exemplar
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2014 Physics Grade11 Paper1 November Exemplar
 - Setting Reading Goals 2014 Physics Grade11 Paper1 November Exemplar
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2014 Physics Grade11 Paper1 November Exemplar
 - Fact-Checking eBook Content of 2014 Physics Grade11 Paper1 November Exemplar
 - 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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