



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
 - 5Ω
 - 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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Jicheng Xie



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 - The Rise of Digital Reading Physical Science Paper1 Nivember2013 Memo Grade11
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper1 Nivember2013 Memo Grade11
 - 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 Paper1 Nivember2013 Memo Grade11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper1 Nivember2013 Memo Grade11
 - Personalized Recommendations
 - Physical Science Paper1 Nivember2013 Memo Grade11 User Reviews and Ratings
 - Physical Science Paper1 Nivember2013 Memo Grade11 and Bestseller Lists
5. Accessing Physical Science Paper1 Nivember2013 Memo Grade11 Free and Paid eBooks
 - Physical Science Paper1 Nivember2013 Memo Grade11 Public Domain eBooks
 - Physical Science Paper1 Nivember2013 Memo Grade11 eBook Subscription Services
 - Physical Science Paper1 Nivember2013 Memo Grade11 Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Physical Science Paper1 Nivember2013 Memo Grade11 Compatibility with Devices
 - Physical Science Paper1 Nivember2013 Memo Grade11 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper1 Nivember2013 Memo Grade11
 - Highlighting and Note-Taking Physical Science Paper1 Nivember2013 Memo Grade11
 - Interactive Elements Physical Science Paper1 Nivember2013 Memo Grade11
8. Staying Engaged with Physical Science Paper1 Nivember2013 Memo Grade11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper1 Nivember2013 Memo Grade11
9. Balancing eBooks and Physical Books Physical Science Paper1 Nivember2013 Memo Grade11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper1 Nivember2013 Memo Grade11
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Paper1 Nivember2013 Memo Grade11
 - Setting Reading Goals Physical Science Paper1 Nivember2013 Memo Grade11
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Paper1 Nivember2013 Memo Grade11
 - Fact-Checking eBook Content of Physical Science Paper1 Nivember2013 Memo Grade11
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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