



GRADE 11 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 1: PHYSICS

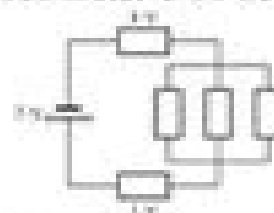
SECTION A

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

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Table of Contents Physical Science 50exam Papers

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 - The Rise of Digital Reading Physical Science 50exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science 50exam Papers
 - 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 50exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science 50exam Papers
 - Personalized Recommendations
 - Physical Science 50exam Papers User Reviews and Ratings
 - Physical Science 50exam Papers and Bestseller Lists
5. Accessing Physical Science 50exam Papers Free and Paid eBooks
 - Physical Science 50exam Papers Public Domain eBooks
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 - Physical Science 50exam Papers Budget-Friendly Options

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 - Highlighting and Note-Taking Physical Science 50exam Papers
 - Interactive Elements Physical Science 50exam Papers
8. Staying Engaged with Physical Science 50exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science 50exam Papers
9. Balancing eBooks and Physical Books Physical Science 50exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science 50exam Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Physical Science 50exam Papers
 - Carving Out Dedicated Reading Time
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 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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