

GRADE 11 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 1: PHYSICS

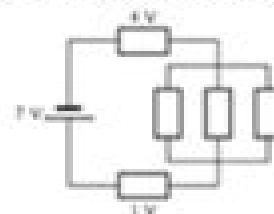
SECTION A

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 120N 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 50N
 - 120N and 0N
 - 60N and 60N
 - 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
 - 2V
 - 3V
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 2Ω:
- 10Ω
 - 4,67Ω
 - 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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Table of Contents Reviews On Physics Paper 1 Grade 11 Final

1. Understanding the eBook Reviews On Physics Paper 1 Grade 11 Final
 - The Rise of Digital Reading Reviews On Physics Paper 1 Grade 11 Final
 - Advantages of eBooks Over Traditional Books
2. Identifying Reviews On Physics Paper 1 Grade 11 Final
 - 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 Reviews On Physics Paper 1 Grade 11 Final
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reviews On Physics Paper 1 Grade 11 Final
 - Personalized Recommendations
 - Reviews On Physics Paper 1 Grade 11 Final User Reviews and Ratings
 - Reviews On Physics Paper 1 Grade 11 Final and Bestseller Lists

5. Accessing Reviews On Physics Paper 1 Grade 11 Final Free and Paid eBooks
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 - Reviews On Physics Paper 1 Grade 11 Final eBook Subscription Services
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 - Reviews On Physics Paper 1 Grade 11 Final Compatibility with Devices
 - Reviews On Physics Paper 1 Grade 11 Final Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reviews On Physics Paper 1 Grade 11 Final
 - Highlighting and Note-Taking Reviews On Physics Paper 1 Grade 11 Final
 - Interactive Elements Reviews On Physics Paper 1 Grade 11 Final
8. Staying Engaged with Reviews On Physics Paper 1 Grade 11 Final
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reviews On Physics Paper 1 Grade 11 Final
9. Balancing eBooks and Physical Books Reviews On Physics Paper 1 Grade 11 Final
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reviews On Physics Paper 1 Grade 11 Final
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Reviews On Physics Paper 1 Grade 11 Final
 - Setting Reading Goals Reviews On Physics Paper 1 Grade 11 Final
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Reviews On Physics Paper 1 Grade 11 Final
 - Fact-Checking eBook Content of Reviews On Physics Paper 1 Grade 11 Final
 - 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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