

## 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 20:
- 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         |

# Physic Department Paper 1 Exemplar 2013 November

**Hussin A.Rothana**



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## **Table of Contents Physic Department Paper 1 Exemplar 2013 November**

1. Understanding the eBook Physic Department Paper 1 Exemplar 2013 November
  - The Rise of Digital Reading Physic Department Paper 1 Exemplar 2013 November
  - Advantages of eBooks Over Traditional Books
2. Identifying Physic Department Paper 1 Exemplar 2013 November
  - 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 Physic Department Paper 1 Exemplar 2013 November
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physic Department Paper 1 Exemplar 2013 November
  - Personalized Recommendations
  - Physic Department Paper 1 Exemplar 2013 November User Reviews and Ratings
  - Physic Department Paper 1 Exemplar 2013 November and Bestseller Lists
5. Accessing Physic Department Paper 1 Exemplar 2013 November Free and Paid eBooks
  - Physic Department Paper 1 Exemplar 2013 November Public Domain eBooks
  - Physic Department Paper 1 Exemplar 2013 November eBook Subscription Services
  - Physic Department Paper 1 Exemplar 2013 November Budget-Friendly Options
6. Navigating Physic Department Paper 1 Exemplar 2013 November eBook Formats
  - ePub, PDF, MOBI, and More
  - Physic Department Paper 1 Exemplar 2013 November Compatibility with Devices
  - Physic Department Paper 1 Exemplar 2013 November Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physic Department Paper 1 Exemplar 2013 November
  - Highlighting and Note-Taking Physic Department Paper 1 Exemplar 2013 November
  - Interactive Elements Physic Department Paper 1 Exemplar 2013 November
8. Staying Engaged with Physic Department Paper 1 Exemplar 2013 November

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physic Department Paper 1 Exemplar 2013 November
9. Balancing eBooks and Physical Books Physic Department Paper 1 Exemplar 2013 November
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physic Department Paper 1 Exemplar 2013 November
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physic Department Paper 1 Exemplar 2013 November
- Setting Reading Goals Physic Department Paper 1 Exemplar 2013 November
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physic Department Paper 1 Exemplar 2013 November
- Fact-Checking eBook Content of Physic Department Paper 1 Exemplar 2013 November
  - 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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