



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL
SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

NOVEMBER 2017

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages, 3 data sheets and 1 answer sheet

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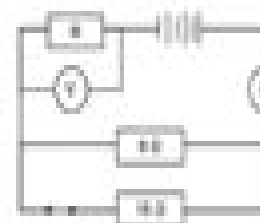
Physical Sciences/P1

10
CAPS – Grade 11

100 Marks (P1)

QUESTION 10 (Start on a new page)

- 10.1 The circuit below consists of a 4 Ω and 16 Ω resistor connected in parallel and an unknown resistor R_x in series. An ammeter, a high-resistance voltmeter, a closed switch and battery are connected, as shown. The resistance of the battery and wires can be ignored.



The total power dissipated in the parallel part of the circuit is 32 W.

- 10.1.1 Define the term power. (2)
10.1.2 Calculate the effective resistance of the parallel combination. (2)
10.1.3 Calculate the potential difference across the resistors in parallel. (2)
10.1.4 Calculate the current through resistor R_x. (2)

The switch in the circuit is now OPENED.

- 10.1.5 How will the reading on the voltmeter (V) be affected? Choose from INCREASE, DECREASE or REMAIN THE SAME. (1)
10.1.6 Refer the answer to QUESTION 10.1.5. (2)

- 10.2 A geyser, labeled 3000 W, is used for an average of 5 hours per day. The cost of electricity is 30 cents per kWh.

- 10.2.1 Calculate the energy used by the geyser for 5 hours per day. (2)
10.2.2 Calculate the cost of electricity to operate the geyser for a month with 30 days. (2)

(2)

TOTAL: 100

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Physical Science P1 November 2013 Grade11 Limpopo Province

SJ Ball



Physical Science P1 November 2013 Grade11 Limpopo Province:

This book delves into Physical Science P1 November 2013 Grade11 Limpopo Province. Physical Science P1 November 2013 Grade11 Limpopo Province is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science P1 November 2013 Grade11 Limpopo Province, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science P1 November 2013 Grade11 Limpopo Province
 - Chapter 2: Essential Elements of Physical Science P1 November 2013 Grade11 Limpopo Province
 - Chapter 3: Physical Science P1 November 2013 Grade11 Limpopo Province in Everyday Life
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 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Physical Science P1 November 2013 Grade11 Limpopo Province. The first chapter will explore what Physical Science P1 November 2013 Grade11 Limpopo Province is, why Physical Science P1 November 2013 Grade11 Limpopo Province is vital, and how to effectively learn about Physical Science P1 November 2013 Grade11 Limpopo Province.
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 5. In chapter 4, the author will scrutinize the relevance of Physical Science P1 November 2013 Grade11 Limpopo Province in specific contexts. This chapter will explore how Physical Science P1 November 2013 Grade11 Limpopo Province is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Physical Science P1 November 2013 Grade11 Limpopo Province. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science P1 November 2013 Grade11 Limpopo Province.

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