



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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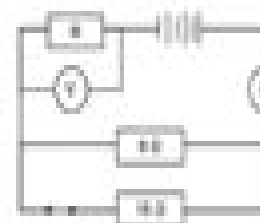
Physical Sciences/P1

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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F Rizvi



Physical Science P1 November 2013 Grade11 Limpopo Province:

Adopting the Track of Phrase: An Mental Symphony within **Physical Science P1 November 2013 Grade11 Limpopo Province**

In a world consumed by screens and the ceaseless chatter of immediate communication, the melodic splendor and emotional symphony produced by the prepared term usually diminish in to the backdrop, eclipsed by the relentless noise and disturbances that permeate our lives. Nevertheless, situated within the pages of **Physical Science P1 November 2013 Grade11 Limpopo Province** a charming fictional treasure overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this fascinating masterpiece conducts readers on a psychological journey, skillfully unraveling the concealed melodies and profound impact resonating within each cautiously constructed phrase. Within the depths of this touching review, we will explore the book is key harmonies, analyze their enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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