



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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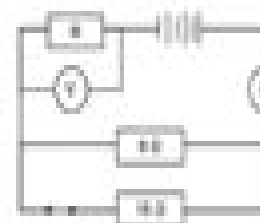
Physical Sciences/P1

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 2000 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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Table of Contents Grade11 June 2014 Electrical Technology Question Paper

1. Understanding the eBook Grade11 June 2014 Electrical Technology Question Paper
 - The Rise of Digital Reading Grade11 June 2014 Electrical Technology Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade11 June 2014 Electrical Technology Question Paper
 - 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 Grade11 June 2014 Electrical Technology Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade11 June 2014 Electrical Technology Question Paper
 - Personalized Recommendations
 - Grade11 June 2014 Electrical Technology Question Paper User Reviews and Ratings
 - Grade11 June 2014 Electrical Technology Question Paper and Bestseller Lists

5. Accessing Grade11 June 2014 Electrical Technology Question Paper Free and Paid eBooks
 - Grade11 June 2014 Electrical Technology Question Paper Public Domain eBooks
 - Grade11 June 2014 Electrical Technology Question Paper eBook Subscription Services
 - Grade11 June 2014 Electrical Technology Question Paper Budget-Friendly Options
6. Navigating Grade11 June 2014 Electrical Technology Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade11 June 2014 Electrical Technology Question Paper Compatibility with Devices
 - Grade11 June 2014 Electrical Technology Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade11 June 2014 Electrical Technology Question Paper
 - Highlighting and Note-Taking Grade11 June 2014 Electrical Technology Question Paper
 - Interactive Elements Grade11 June 2014 Electrical Technology Question Paper
8. Staying Engaged with Grade11 June 2014 Electrical Technology Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade11 June 2014 Electrical Technology Question Paper
9. Balancing eBooks and Physical Books Grade11 June 2014 Electrical Technology Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade11 June 2014 Electrical Technology Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade11 June 2014 Electrical Technology Question Paper
 - Setting Reading Goals Grade11 June 2014 Electrical Technology Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade11 June 2014 Electrical Technology Question Paper
 - Fact-Checking eBook Content of Grade11 June 2014 Electrical Technology Question Paper
 - 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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