



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

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

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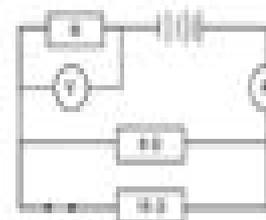
Physical Sciences/P1

11
2017 – Grade 11

100 Marks/100%

QUESTION 10 (Start on a new page)

- 10.1 The circuit below consists of a 4 Ω and 10 Ω resistor connected in parallel and an unknown resistor R, in series. An ammeter, a high-resistance voltmeter, a closed switch and battery are connected, as shown. The resistances of the battery and wires can be ignored.



The total power dissipated in the parallel part of the circuit is 30 W.

- 10.1.1 Calculate the total 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. (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 REMAINS THE SAME. (1)
 10.1.6 Refer to answer to QUESTION 10.1.5. (2)

- 10.2 A geyser, rated 2000 W, is used for an average of 3 hours per day. The cost of electricity is 30 cents per kWh.

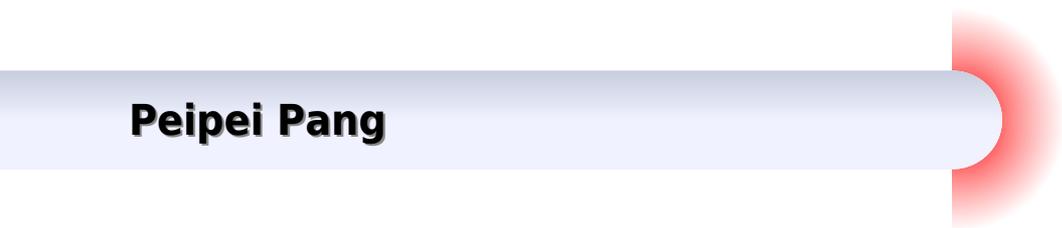
- 10.2.1 Calculate the energy used by the geyser for 3 hours per day. (2)
 10.2.2 Calculate the cost of electricity to operate the geyser for a month with 30 days. (2)

TOTAL: 100

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1. Understanding the eBook November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - The Rise of Digital Reading November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - 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 November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Personalized Recommendations
 - November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2 User Reviews and Ratings
 - November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2 and Bestseller Lists
5. Accessing November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2 Free and Paid eBooks
 - November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2 Public Domain eBooks
 - November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2 eBook Subscription Services
 - November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2 Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2 Compatibility with Devices
 - November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Highlighting and Note-Taking November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Interactive Elements November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
8. Staying Engaged with November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
9. Balancing eBooks and Physical Books November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Setting Reading Goals November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - Fact-Checking eBook Content of November 2013 Physical Sciences Exemplar Grade11 Gauteng Paper2
 - 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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