



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

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 | Enter 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) |

[20]

TOTAL: 100

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Katrin Zwirgmaier



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