



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)

(20)

TOTAL: 100

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Oxford Business Group



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The Report: Abu Dhabi 2014 Oxford Business Group, 2014-03-25 Although the emirate's economic growth can be primarily attributed to its vast hydrocarbons resources it has also made progress diversifying into new sectors such as manufacturing tourism aerospace defence finance and logistics In addition to its economic investments Abu Dhabi has also made major contributions to social welfare as well as infrastructure which has been identified as the bedrock for future growth The government has played a key role in the expansion of the security aerospace and defence industry over the past decade in an effort to strengthen the UAE's defence capabilities and as a means of boosting economic diversification Despite challenges such as a high level of regional competition most local defence and aviation firms expect to see continued expansion for years to come The evidence suggests that the emirate has succeeded in nurturing new economic sectors and is on track to meet its goals The oil and gas sector accounted for 56.5% of Abu Dhabi's GDP at current prices in 2012 followed by construction 9.6% manufacturing 5.9% and real estate 4.4% Government Reports Announcements & Index, 1986-07

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