

P510/2
PHYSICS
Paper 2
Nov. / Dec. 2015
2½ hours



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

PHYSICS

Paper 2

2 hours 30 hours

INSTRUCTIONS TO CANDIDATES:

Answer five questions, taking at least one from each of the sections, A, B, C and D, but not more than one question should be chosen from either A or B.

Any additional question(s) answered will not be marked.

Mathematical tables and squared paper are provided.

Non-programmable scientific calculators may be used.

Assume where necessary:

<i>Acceleration due to gravity, g</i>	<i>=</i>	9.81 ms^{-2}
<i>Speed of light in a vacuum, c</i>	<i>=</i>	$3.0 \times 10^8 \text{ ms}^{-1}$
<i>Electron charge, e</i>	<i>=</i>	$1.6 \times 10^{-19} \text{ C}$
<i>Electron mass</i>	<i>=</i>	$9.11 \times 10^{-31} \text{ kg}$
<i>Planck's constant, h</i>	<i>=</i>	$6.6 \times 10^{-34} \text{ Js}$
<i>Permeability of free space, μ_0</i>	<i>=</i>	$4.0\pi \times 10^{-7} \text{ Hm}^{-1}$
<i>Permittivity of free space, ϵ_0</i>	<i>=</i>	$8.85 \times 10^{-12} \text{ Fm}^{-1}$
<i>The constant $\frac{1}{4\pi\epsilon_0}$</i>	<i>=</i>	$9.0 \times 10^9 \text{ F}^{-1}\text{m}$
<i>One electron volt (eV)</i>	<i>=</i>	$1.6 \times 10^{-19} \text{ J}$
<i>Avogadro's number N_A</i>	<i>=</i>	$6.02 \times 10^{23} \text{ mol}^{-1}$
<i>Resistivity of Nichrome wire at 25°C</i>	<i>=</i>	$1.2 \times 10^{-6} \Omega\text{m}$
<i>Specific heat capacity of water</i>	<i>=</i>	$4.2 \times 10^3 \text{ Jkg}^{-1}\text{K}^{-1}$

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A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the TU Delft text.

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