



GCE A LEVEL

1420U50-1D



S24-1420U50-1D

To be opened on WEDNESDAY, 17 APRIL 2024 by TEACHERS

PHYSICS – A2 unit 5
Practical Examination

Experimental Task
TESTS 1 and 2

SETTING UP INSTRUCTIONS

CONFIDENTIAL

This document should be stored securely by the exams officer when not in use by the teacher/technician.

This document must not be stored within the science department when not in use by the teacher/technician.

Its contents should not be divulged except to those concerned with the preparation of the assessment.

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01

(b) Record your results in a table below.

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The remaining parts of the examination paper are not required for the purpose of checking the setting up of the task.

TEST 2

All of the above applies except constantan wire 34 s.w.g. / approximately 0.22 mm diameter should be used.

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03

AWARDING OF TEACHER ASSESSED MARKS

Please ensure that these marks are recorded on the front of each candidate's paper.

- (a) (i) **The mark is to be awarded if the candidate has identified the graph to plot as:** $\ln R$ against $\ln l$. Accept $\log R$ against $\log l$.

If the candidate is incorrect **do not award the mark** but give the candidate the information sheet (on the next page) to tell them the correct graph to plot.

However, if a candidate identifies the graph to plot as $\ln l$ against $\ln R$ and the correct method to find k and n is given then this is acceptable too. The information sheet **should not** be given in this case.

- (ii) **This mark is to be awarded if the candidate states that there is no significant risk.**

INFORMATION SHEET

**Sufficient copies of this information sheet should be made in advance.
The information sheet is the same for Tests 1 and 2.**

INFORMATION SHEET

The graph that should be plotted is $\ln R$ on the y -axis and $\ln I$ on the x -axis.

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