

Centre Number

Candidate Number

Name

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

**PHYSICS****0625/05**

Paper 5 Practical Test

May/June 2005

**1 hour 15 minutes****ANSWER BOOKLET****READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen in the spaces provided on this Answer Booklet.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

All of your answers should be written in this Answer Booklet: scrap paper must **not** be used.

Answer **all** questions.

Graph paper is provided in this Answer Booklet. Additional sheets of graph paper should be used only if it is necessary to do so.

At the end of the examination, fasten any additional answer paper used securely to this Answer Booklet.

If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.

Stick your personal label here, if provided.

**For Examiner's Use****1****2****3****4****Total**

This document consists of **7** printed pages and **1** blank page.



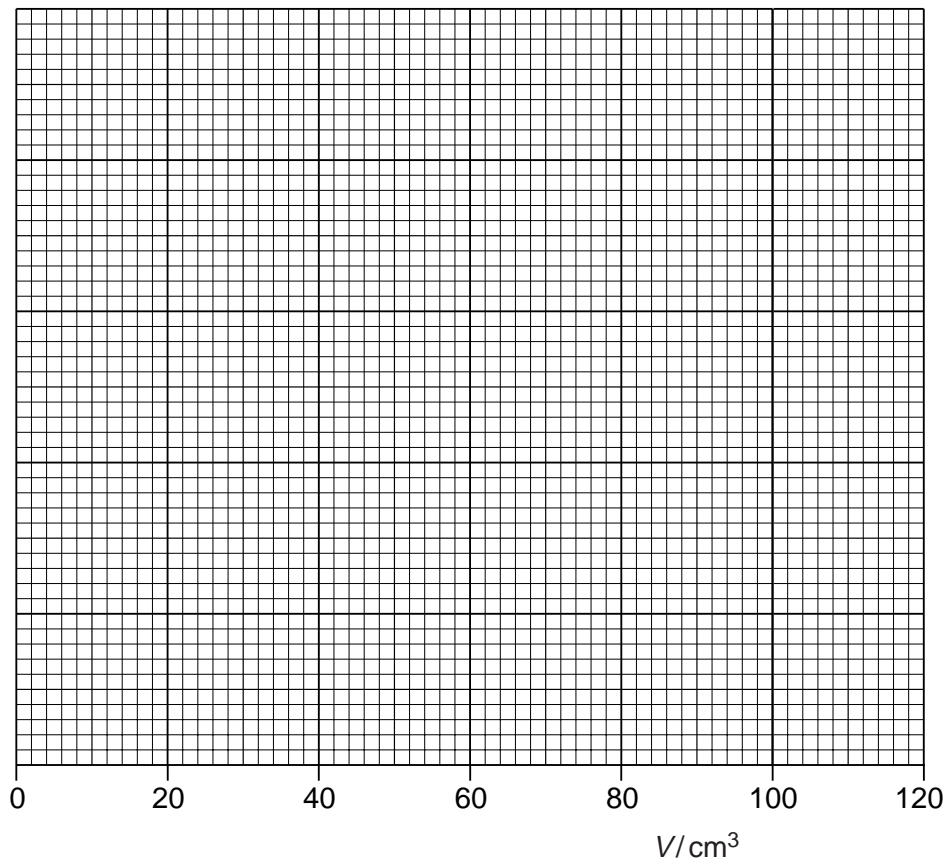
1 (a) (i) Record of temperature of the cold water ..... [1]

(ii) – (v)

| $\theta /$ | $V /$ |
|------------|-------|
|            | 0     |
|            |       |
|            |       |
|            |       |
|            |       |
|            |       |

[3]

(vi)



[5]

**(b)** A practical reason why the student's experimental line differed from the theoretical line

.....

.....

..... [1]

2 (a) – (f)

| voltmeter<br>connected<br>across | $I/$ | $I/$ | $V/$ | $R/$ |
|----------------------------------|------|------|------|------|
| <b>AB</b>                        |      |      |      |      |
| <b>AC</b>                        |      |      |      |      |
| <b>AD</b>                        |      |      |      |      |

[8]

(g) Working

Predicted resistance .....

[2]

**3 (a) – (f)**

| $m/\text{g}$ | $t_1/\text{s}$ | $t_2/\text{s}$ | $t/\text{s}$ | $T/\text{s}$ | $\frac{T}{m}$ |
|--------------|----------------|----------------|--------------|--------------|---------------|
| 400          |                |                |              |              |               |
| 300          |                |                |              |              |               |
| 200          |                |                |              |              |               |

[6]

**(g)** Statement .....

Reason .....

.....

..... [2]

**(h)** Description .....

.....

..... [2]

**Tie your ray trace sheets in here.**

**[5]**

4 (h) value of  $r$  .....

(j) value of  $r$  .....

(l) value of  $r$  .....

[4]

(m) Within the limits of experimental error, .....

.....

..... [1]

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