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## **UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2008 question paper

## 0625 PHYSICS

0625/06

Paper 6 (Alternative to Practical), maximum raw mark 40

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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|   | 1000L Oddobennovember 2000  | •                 |
|---|---|-------------------|
| 1 | (a) view perpendicular to (or straight in front of rule)/use of set square  | [1]               |
|   | (b) (i) correct e <sub>1</sub> value 3.1 and correct e <sub>2</sub> value 2.4 e in cm   | [1]<br>[1]        |
|   | (c) density 4.43 (ecf) 2/3 significant figures g/cm <sup>3</sup>  | [1]<br>[1]<br>[1] |
|   | (d) $e_2$ greater $\rho$ greater (or identical to $e_2$ answer) (ecf)   | [1]<br>[1]        |
|   |   | [Total: 8]        |
| 2 | Diagram: correct symbols for ammeter and voltmeter correct symbols for resistor correct circuit arrangement   | [1]<br>[1]<br>[1] |
|   | Table: units V, A (symbol/word)   | [1]               |
|   | (c) Prediction 1 Yes – close enough (or words to that effect)   |                   |
|   | OR No – not close enough (or words to that effect) Prediction 2 Yes – approximately half (or words to that effect)  | [1]<br>[1]        |
|   | Resistance at connections Internal resistance of source/other sensible suggestion   | [1]               |
|   |   | [Total: 7]        |
| 3 | Table   |                   |
|   | $\theta$ in °C, V in cm <sup>3</sup> correct V 0, 20, 40, 60, 80, 100   | [1]<br>[1]        |
|   | Graph: axes labelled with symbol and unit axes suitable (e.g. not '3' scale) and plots occupy more than $\frac{1}{2}$ grid all plots correct (better than $\frac{1}{2}$ sq) well judged, thin best fit line                         | [1]<br>[1]<br>[1] |
|   | (c) 1. sensible comment about heat loss to the surroundings, e.g. use of insulation/  | lid [1]           |
|   | <ol> <li>sensible comment about fleat loss to the surroundings, e.g. use of insulation.</li> <li>sensible comment about adding water in a regulated, timed flow (including volumes/set time intervals/shorter intervals.</li> </ol> |                   |
|   |   | [Total: 8]        |
|   |   | -                 |

Mark Scheme
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Paper 6

Syllabus 0625

|   | Page 3  | Mark Scheme   | Syllabus | Paper                    |
|---|---|---|----------|--------------------------|
|   |   | IGCSE – October/November 2008   | 0625     | 6                        |
| 4 | (a) f = 14.9(<br>correct u                          |   |          | [1]<br>[1]               |
|   | (b) (i) $x_s =$                                     | 5.0(cm) and $y_s = 5.2$ (cm)  |          | [1]                      |
|   | ` '   | or of ×6<br>31.2(cm) (ecf)  |          | [1]<br>[1]               |
|   | (iii) 15.2  | 29, 15.3, 15 (ecf)  |          | [1]                      |
|   | `´´ 2 or  | ect method 3 significant figures and correct unit rage <i>f</i> 15.1 (correct answer only)        |          | [1]<br>[1]<br>[1]        |
|   | (c) inverted  | image   |          | [1]<br>[Total: 10]       |
| 5 | (a) 0.7 N<br>6 cm <sup>3</sup><br>1.4 s<br>4.0 N/cm | $\eta^2$  |          | [1]<br>[1]<br>[1]<br>[1] |
|   | . , . ,   | imum current/turn down power supply/increase resisch off between readings/carry out without delay | stance   | [1]<br>[1]               |
|   | (ii) varia  | able resistor/rheostat  |          | [1]                      |
|   |   |   |          | [Total: 7]               |