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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

0625/05

Paper 5 (Practical Test), 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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

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1	(a) (i) & (ii) $h_0$ value $h_1$ value < $h_0$ value	[1] [1]
	(iii) correct e <sub>1</sub> value all above in correct unit (m, cm, mm) stated at least once	[1] [1]
	(b) (i) & (ii) $h_2$ value, $\langle h_0 \text{ and } \rangle h_1$ $e_2$ value correct	[1] [1]
	(c) density calculation correct 2/3 significant figures, value 6–10 g/cm <sup>3</sup>	[1] [1]
	(d) $e_2$ greater $\rho$ greater (or identical to $e_2$ answer)	[1] [1]
		[Total: 10]
2	Diagram: correct symbols for ammeter and voltmeter correct symbols for resistor correct circuit arrangement	[1] [1] [1]
	Table: units V, A (symbol/word) All $V$ to at least 1 d.p., < 1.5 V All $I$ to at least 2 d.p., $\leq$ 1 A Circuit 3 $V$ < circuit 1 and 2 values	[1] [1] [1] [1]
	(i) Statement: Yes (if within 10%) No (if not) Justification: must match statement (e.g. close enough/too	[1] different or words to
	that effect)	[1]
	Resistance at connections/temperature change/ Internal resistance of source/other sensible suggestion	[1]
		[Total: 10]

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Syllabus 0625 Paper 5

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3	(a)	record of	f $ heta_{\!\scriptscriptstyle ho}$ (sensible value)		[1]
		Table $\theta$ in °C, $V$ in cm <sup>3</sup> 6 sets of readings with correct $V$ 0, 20, 40, 60, 80, 100 Temps decreasing			
		Graph: axes labelled axes suitable (e.g. not '3' scale) and plots occupy more than ½ grid all plots correct (better than ½ sq) well judged, thin best fit line			
	(d)	1. sensible comment about heat loss to the surroundings, e.g. use of insulation/lid     2. sensible comment about adding water in a regulated, timed flow			
					[Total: 10]
4	(a)	y value 2	25–53 cm		[1]
	(b)		calculation of <i>f</i> unit for <i>y</i> and <i>f</i>		[1] [1]
	(c)	y value 2	20–40 (cm) and <i>f</i> present		[1]
	(d)	correct n average	nethod f 13–17 (cm)		[1] [1]
	(e)	d 13–17	cm		[1]
	(f)	Yes (if w	rithin 2 cm) No (if not)		[1]
	(g)	same siz Inverted/	ze/real /brightness/coloured edges		[1] [1] <b>[Total: 10]</b>
					[10(a), 10]