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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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	10002 000001/100011001 2000 0020	
1	(a) view perpendicular to (or straight in front of rule)/use of set square	[1]
	(b) (i) correct e₁ value 3.1 and correct e₂ value 2.4 e in cm	[1] [1]
	(c) density 4.43 (ecf) 2/3 significant figures g/cm ³	[1] [1] [1]
	(d) e_2 greater ρ greater (or identical to e_2 answer) (ecf)	[1] [1]
		[Total: 8]
2	Diagram: correct symbols for ammeter and voltmeter correct symbols for resistor correct circuit arrangement	[1] [1] [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] [1]
	Resistance at connections Internal resistance of source/other sensible suggestion	[1]
		[Total: 7]
3	Table	
Ū	θ in °C, V in cm ³ correct V 0, 20, 40, 60, 80, 100	[1] [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] [1] [1] [1]
	(a) 4 consible comment about boot loss to the commentations as a constitution	tion/lid [41
	 (c) 1. sensible comment about heat loss to the surroundings, e.g. use of insula 2. sensible comment about adding water in a regulated, timed flow (included by the state interest) 	iding smaller
	volumes/set time intervals/shorter intervals	[1]
		[Total: 8]

Mark Scheme
IGCSE – October/November 2008

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Paper 6

Syllabus 0625

	Page 3	Mark Scheme	Syllabus	Paper
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4	(a) f = 14.9 correct	(4), or 15 unit for <i>f</i>		[1] [1]
	(b) (i) $x_s =$	= 5.0(cm) and y_s = 5.2(cm)		[1]
	` '	tor of ×6 31.2(cm) (ecf)		[1] [1]
	(iii) 15.	29, 15.3, 15 (ecf)		[1]
	`´2o	rect method r 3 significant figures and correct unit erage f 15.1 (correct answer only)		[1] [1] [1]
	(c) inverted	d image		[1] [Total: 10]
5	(a) 0.7 N 6 cm ³ 1.4 s 4.0 N/cr	m^2		[1] [1] [1] [1]
		nimum current/turn down power supply/increase resistch off between readings/carry out without delay	stance	[1] [1]
	(ii) var	iable resistor/rheostat		[1]
				[Total: 7]