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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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	Page 2	Mark Scheme	Syllabus	
	-	IGCSE – October/November 2008	0625	
1	(a) view perpendicular to (or straight in front of rule)/use of set square			
	(b) (i) corr e in	rect e <sub>1</sub> value 3.1 and correct e <sub>2</sub> value 2.4 cm	Syllabus 0625 quare	
	(c) density 2 2/3 signi g/cm <sup>3</sup>	4.43 (ecf) ificant figures	[1] [1] [1]	
	(d) $e_2$ greate $\rho$ greate	er r (or identical to e <sub>2</sub> answer) (ecf)	[1] [1]	
			[Total: 8]	
2	correct symb	rrect symbols for ammeter and voltmeter ools for resistor it arrangement	[1] [1] [1]	
	Table: units \	V, A (symbol/word)	[1]	
	OR No - Predictio	on 1 Yes – close enough (or words to that effect) - not close enough (or words to that effect) on 2 Yes – approximately half (or words to that effect	[1] i) [1]	
		resistance of source/other sensible suggestion	[1]	
			[Total: 7]	
3	Table			
J	$\theta$ in °C, $V$ in	cm <sup>3</sup> 20, 40, 60, 80, 100	[1] [1]	
	axes suitable all plots corr	s labelled with symbol and unit e (e.g. not '3' scale) and plots occupy more than $\frac{1}{2}$ grect (better than $\frac{1}{2}$ sq) thin best fit line	[1] grid [1] [1] [1]	
	2. sensil	ole comment about heat loss to the surroundings, e.g ble comment about adding water in a regulated, tire s/set time intervals/shorter intervals		

[Total: 8]

Page 3	Mark Scheme	Syllabus	
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4 (a) f = 14.9(4), or 15 correct unit for f

	(b) (i)	$x_s = 5.0$ (cm) and $y_s = 5.2$ (cm)	[1]
	(ii)	factor of ×6 y = 31.2(cm) (ecf)	[1] [1]
	(iii)	15.29, 15.3, 15 (ecf)	[1]
	(iv)	correct method 2 or 3 significant figures and correct unit average f 15.1 (correct answer only)	[1] [1] [1]
	(c) in	[1]	
			[Total: 10]
5	1.4	7 N cm <sup>3</sup> 4 s D N/cm <sup>2</sup>	[1] [1] [1] [1]
	(b) (i)	minimum current/turn down power supply/increase resistance switch off between readings/carry out without delay	[1] [1]
	(ii)	variable resistor/rheostat	[1]
			[Total: 7]