MARK SCHEME for the October/November 2008 question paper

0625 PHYSICS

0625/06

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

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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	Paper
		IGCSE – October/November 2008	0625	6
1	(a) view perpendicular to (or straight in front of rule)/use of set square			[1]
	(b) (i) corr e in	ect e_1 value 3.1 and correct e_2 value 2.4 cm		[1] [1]
	(c) density ² 2/3 signi g/cm ³	1.43 (ecf) ficant figures		[1] [1] [1]
	(d) e ₂ greate ρ greate	er r (or identical to <i>e</i> ₂ answer) (ecf)		[1] [1] [Total: 8]
2	correct symb	rect symbols for ammeter and voltmeter ols for resistor t arrangement		[1] [1] [1]
	Table: units	/, A (symbol/word)		[1]
	OR No -	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] [1]
		ice at connections resistance of source/other sensible suggestion		[1]
				[Total: 7]
-				
3	Table θ in °C, V in θ correct V 0, 2	cm ³ 20, 40, 60, 80, 100		[1] [1]
	axes suitable all plots corr	labelled with symbol and unit e (e.g. not '3' scale) and plots occupy more than ½ g ect (better than ½ sq) thin best fit line	rid	[1] [1] [1] [1]
	2. sensil	ble comment about heat loss to the surroundings, e.g ble comment about adding water in a regulated, tin /set time intervals/shorter intervals		
				[Total: 8]

Pag	je 3	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2008	0625	6
	f = 14.9(4 correct u			[1] [1]
(b)	(i) x _s =	5.0(cm) and $y_s = 5.2(cm)$		[1]
(or of ×6 31.2(cm) (ecf)		[1] [1]
(i	ii) 15.2	9, 15.3, 15 (ecf)		[1]
(i	2 or	ect method 3 significant figures and correct unit age <i>f</i> 15.1 (correct answer only)		[1] [1] [1]
(c) i	inverted	image		[1] [Total: 10]
5 (a) 0.7 N 6 cm ³ 1.4 s 4.0 N/cm		2		[1] [1] [1] [1]
(b)		mum current/turn down power supply/increase resis ch off between readings/carry out without delay	stance	[1] [1]
((ii) varia	able resistor/rheostat		[1]
				[Total: 7]