MARK SCHEME for the October/November 2007 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.

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	Page 2	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2007	0625	05
1	Co	is, θ in °C, and θ_0 (10 – 45) implete set of readings, temps decreasing idence of θ to 1°C		[1] [1] [1]
	(f) (i) T ₁ ,	T ₂ correct arithmetic		[1]
	(ii) T ₁	> T ₂		[1]
	(g) (i) rea	ason consistent with results		[1]
	roc vol be liqu	ree from: om temp/draughts, etc. lume/mass/amount aker/insulation/lid/surface uid nount of stirring		
		<u>ot</u> starting temperature)		[3]
	(h) lid			[1]
				[Total: 10]
2	(a) h ₀ 25 –	100 cm with correct unit		[1]
	CO	mplete table <i>h</i> , <i>d</i> rrect arithmetic for <i>d</i> <i>h</i> to nearest mm		[1] [1] [1]
	all plots	e scale labelled symbol/unit s to nearest ½ sq (–1 each error or omission) n and well judged		[1] [2] [1]
		tion of <i>d</i> correct reading from graph to $\frac{1}{2}$ square and to 1dp		[1] [1]
				[Total: 10]

Page 3		Mark Scheme	Syllabus	Paper
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3	A I	<i>I</i> values, sensible (watch for <i>I</i> x 10) All <i>I</i> to at least 2 dp in A at least once = $I_1 + I_2 + I_3 + 10\%$		[1] [1] [1] [1]
		ment (yes) on consistent with readings		[1]
		ole resistor/extra cell/vary power supply/different per of lamps		[1]
	(f) sensi	ble <i>V</i> (< 3V), unit and at least 1 dp		[1]
		ct arithmetic for <i>R</i> ind 2/3 sf		[1] [1]
(h)	$V_{\rm a}$ = 0, $V_{\rm b}$	= V		[1]
				[Total: 10]
4	s x x	ensible <i>x</i> value (less than <i>h</i>) ensible <i>h</i> value (typical block: 10 cm) to nearest mm and <i>h</i> with same unit correct arithmetic for <i>n</i>		[1] [1] [1] [1] [1]
	(i)–(j) s	econd different <i>h</i> value		[1]
	2/3 st	ct method for average <i>n</i> ^f and no unit <i>n</i> values 1.4 – 1.6		[1] [1] [1]
		qual heights from bench her valid method)		[1] [Total: 10]