## MARK SCHEME for the October/November 2007 question paper

## 0625 PHYSICS

0625/05

Paper 5 (Practical Test), 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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UNIVERSITY of CAMBRIDGE International Examinations

	Pa	<u>ge</u> 2		Mark Scheme	Syllabus	Paper
		-		IGCSE – October/November 2007	0625	05
1	(a)-	<b>(a)–(e)</b> t in s Con Evic		s, $\theta$ in °C, and $\theta_0$ (10 – 45) nplete set of readings, temps decreasing lence of $\theta$ to 1°C		[1] [1] [1]
	(f)	(i)	T <sub>1</sub> , 7	$T_2$ correct arithmetic		[1]
		(ii)	$T_1 >$	<i>T</i> <sub>2</sub>		[1]
	(g)	(i)	reas	son consistent with results		[1]
		(ii)	Thre roon volu beat liqui amo ( <u>not</u>	ee from: n temp/draughts, etc. me/mass/amount ker/insulation/lid/surface d punt of stirring starting temperature)		[3]
	(h)	lid				[1] [Total: 10]
2	(a)	$h_0$ 2	25 – 1	100 cm with correct unit		[1]
	(b)-	-(d)	com corre all <i>h</i>	plete table <i>h</i> , <i>d</i> ect arithmetic for <i>d</i> to nearest mm		[1] [1] [1]
	(e)	Gra suit all p line	ph: able s blots t thin a	scale labelled symbol/unit to nearest ½ sq (–1 each error or omission) and well judged		[1] [2] [1]
	(g)	calo cori	culation rect re	on of <i>d</i> correct eading from graph to ½ square and to 1dp		[1] [1]
						[Total: 10]

	Page 3	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2007	0625	05
3	(a)–(c) 4 <i>I</i> v All <i>I</i> <i>I</i> in <i>I</i> <i>I</i> = <i>I</i>	values, sensible (watch for $I \ge 10$ ) to at least 2 dp A at least once $I_1 + I_2 + I_3 + 10\%$		[1] [1] [1] [1]
	(d) statemer reason c	nt (yes) consistent with readings		[1]
	(e) variable number	resistor/extra cell/vary power supply/different of lamps		[1]
	(f) sensible	V (< 3V), unit and at least 1 dp		[1]
	(g) correct a unit and	[1] [1]		
(h)	$V_{\rm a} = 0, V_{\rm b} = V_{\rm b}$		[1]	
				[Total: 10]
4	(f)–(h) sens sens <i>x</i> to <i>x</i> an corre	sible <i>x</i> value (less than <i>h</i> ) sible <i>h</i> value (typical block: 10 cm) nearest mm id <i>h</i> with same unit ect arithmetic for <i>n</i>		[1] [1] [1] [1]
	(i)–(j) seco	ond different <i>h</i> value		[1]
	(k) correct n 2/3 sf an both <i>n</i> va	nethod for average <i>n</i> id no unit alues 1.4 – 1.6		[1] [1] [1]
	(I) two equa (or other	al heights from bench valid method)		[1]
				[Total: 10]