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

Page 2		ge 2		Mark Scheme IGCSE – October/November 2007	Syllabus	Paper 05
					0625	
1	(a)–	Con		s, θ in °C, and θ_0 (10 – 45) pplete set of readings, temps decreasing ence of θ to 1°C		[1] [1] [1]
	(f)	(i)	T ₁ , 7	Γ_2 correct arithmetic		[1]
		(ii)	<i>T</i> ₁ >	<i>T</i> ₂		[1]
	(g)	(i)	reas	on consistent with results		[1]
		. ,	roon volu beak liquid	e from: n temp/draughts, etc. me/mass/amount ker/insulation/lid/surface d unt of stirring		
				starting temperature)		[3]
	(h)	lid				[1]
						[Total: 10]
2	(a)	h ₀ 2	5 – 1	00 cm with correct unit		[1]
	(b)–		corre	plete table <i>h</i> , <i>d</i> ect arithmetic for <i>d</i> to nearest mm		[1] [1] [1]
		all p	able s lots t	scale labelled symbol/unit to nearest ½ sq (–1 each error or omission) and well judged		[1] [2] [1]
				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		4 <i>I</i> values, sensible (watch for <i>I</i> x 10) All <i>I</i> to at least 2 dp <i>I</i> in A at least once $I = I_1 + I_2 + I_3 + 10\%$		[1] [1] [1] [1]			
		ement (yes) on consistent with readings		[1]			
		able resistor/extra cell/vary power supply/different ber of lamps		[1]			
	(f) sens		[1]				
	(g) correct arithmetic for <i>R</i> unit and 2/3 sf						
(h)	V _a = 0, V	$V_{\rm a}$ = 0, $V_{\rm b}$ = V					
				[Total: 10]			
4		sensible <i>x</i> value (less than <i>h</i>) sensible <i>h</i> value (typical block: 10 cm) <i>x</i> to nearest mm <i>x</i> and <i>h</i> with same unit correct arithmetic for <i>n</i>		[1] [1] [1] [1]			
	(i)–(j)	second different <i>h</i> value		[1]			
	2/3 s	ect method for average <i>n</i> sf and no unit n values 1.4 – 1.6		[1] [1] [1]			
		equal heights from bench other valid method)		[1] [Total: 10]			