UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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			Com	s, θ in °C, and θ $_0$ (10 – 45) applete set of readings, temps decreasing lence of θ to 1°C		[1] [1] [1]
	(f)	(i)	T ₁ , 7	T ₂ correct arithmetic		[1]
		(ii)	<i>T</i> ₁ >	T_2		[1]
	(g)	(i)	reas	son consistent with results		[1]
		(ii)	roon volui beak liquid amo	ee from: n temp/draughts, etc. me/mass/amount ker/insulation/lid/surface d ount of stirring starting temperature)		[3]
			(1101	otal ting temperature)		[0]
	(h)	lid				[1]
						[Total: 10]
2	(a)	(a) $h_0 25 - 100$ cm with correct unit			[1]	
	(b)-	-(d)	corre	ect arithmetic for <i>d</i> to nearest mm		[1] [1] [1]
	(e)	(e) Graph: suitable scale labelled symbol/unit all plots to nearest ½ sq (–1 each error or omission) line thin and well judged			[1] [2] [1]	
	(g)			on of d correct eading from graph to $\frac{1}{2}$ square and to 1dp		[1] [1]
						[Total: 10]

Paper

[Total: 10]

Syllabus

		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]		
	(d) statement (yes) reason consistent with readings					
	(e) varia	[1]				
	(f) sens	[1]				
	(g) correct arithmetic for R unit and 2/3 sf					
(h)	V _a = 0, V	[1] [Total: 10]				
4		sensible x value (less than h) sensible h value (typical block: 10 cm) x to nearest mm x and h with same unit correct arithmetic for n		[1] [1] [1] [1]		
	(i)-(j)	second different <i>h</i> value		[1]		
	2/3	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]		

Mark Scheme

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