## 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		$t$ in s, $\theta$ in °C, and $\theta_0$ (10 – 45) Complete set of readings, temps decreasing Evidence of $\theta$ to 1°C		[1] [1] [1]	
	(f) (i)	T <sub>1</sub> , 7	C2 correct arithmetic		[1]
	(ii)	<i>T</i> <sub>1</sub> >	$T_2$		[1]
	(g) (i)	reas	on consistent with results		[1]
	( )	roon volui beak liquid amo	ee from: n temp/draughts, etc. me/mass/amount ker/insulation/lid/surface d unt of stirring starting temperature)		[3]
		( <u>110t</u>	starting temperature)		[၁]
	<b>(h)</b> lid				[1]
					[Total: 10]
2	(a) h <sub>0</sub> 2	(a) $h_0 25 - 100$ cm with correct unit			[1]
		corre	plete table <i>h</i> , <i>d</i> ect arithmetic for <i>d</i> to nearest mm		[1] [1] [1]
	all p	able :	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	All <i>I</i> <i>I</i> in	values, sensible (watch for $I \times 10$ ) $I$ to at least 2 dp A at least once $I_1 + I_2 + I_3 + 10\%$		[1] [1] [1] [1]
	(d) stateme	ent (yes) consistent with readings		[1]
	(e) variable number	[1]		
	(f) sensible	e V (< 3V), unit and at least 1 dp		[1]
	(g) correct a		[1] [1]	
(h)	$V_{\rm a} = 0, \ V_{\rm b} =$		[1]	
				[Total: 10]
4	sen x to x aı	sible x value (less than h) sible h value (typical block: 10 cm) nearest mm nd h with same unit rect arithmetic for n		[1] [1] [1] [1]
	(i)-(j) sec	ond different <i>h</i> value		[1]
	2/3 sf aı	method for average <i>n</i> nd no unit ralues 1.4 – 1.6		[1] [1] [1]
		al heights from bench r valid method)		[1] [Total: 10]