## 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	s, $\theta$ in °C, and $\theta_0$ (10 – 45) mplete set of readings, temps decreasing dence of $\theta$ to 1°C		[1] [1] [1]
	(f) (i) T <sub>1</sub> ,	$T_2$ correct arithmetic		[1]
	(ii) <i>T</i> <sub>1</sub> :	> T <sub>2</sub>		[1]
	<b>(g) (i)</b> rea	son consistent with results		[1]
	roo voli bea liqu am	ount of stirring		
	( <u>no</u>	<u>t</u> starting temperature)		[3]
	<b>(h)</b> lid			[1]
				[Total: 10]
2	(a) h <sub>0</sub> 25 –	100 cm with correct unit		[1]
	cor	nplete table <i>h</i> , <i>d</i> rect arithmetic for <i>d</i> <i>h</i> to nearest mm		[1] [1] [1]
	all plots	e scale labelled symbol/unit to nearest ½ sq (–1 each error or omission) and well judged		[1] [2] [1]
		ion 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
		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	sible V (< 3V), unit and at least 1 dp		[1]
		ect arithmetic for <i>R</i> and 2/3 sf		[1] [1]
(h)	V <sub>a</sub> = 0, V	$V_{\rm a}$ = 0, $V_{\rm b}$ = V		[1]
				[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 <i>n</i> values 1.4 – 1.6		[1] [1] [1]
		equal heights from bench other valid method)		[1] [Total: 10]