UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0625 PHYSICS

0625/51

Paper 5 (Practical), 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, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2010	0625	51
1	(a)	<i>d</i> values correct c		[1] [1]	
	(b)	All plots Well judg	pelled and suitable scale correct to ½ small square ged line (position) a, single (quality)		[1] [1] [1] [1]
	(c)	Gradient Clear, or	e	[1] [1]	
	(d)	z value 0 z given to		[1] [1] [Total: 10]	
2	(a)	$\theta_{\rm r}$ sensible value			[1]
		Table 2.2			[1] [1] [1] [1] [1]
	(e)	at least 300s and given to nearest 10s or in mins			[1]
	(f)	Statement matches readings and justified by reference to readings Comparison given of changes in temperature and time with numbers			[1]
	(g)	constant same tim same the	arting temperature t room temperature/avoid draughts/same place ne intervals ermometer (wtte) ass/amount/volume of water		
		lid alway			[2]
					[Total: 10]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – October/November 2010	0625	51	
3	(a) Ammeter symbol Resistor symbol Correct circuit					
	(b)	<i>I</i> ₀ 0.1–1.0	0 (A)		[1]	
	(c)				[1] [1] [1] [1]	
	(d)		calculation of $0.5I_0$ shown (ecf) matches results and given to nearest ohm		[1] [1] [Total: 10]	
4	Tra Nor Cor Poil Initi All I		[1] [1] [1] [1] [1]			
	(i)	θ correct	t to $\pm 2^{\circ}$		[1]	
	(j)	Correct o	calculation of difference		[1]	
	(k)		ues present and angles in ° once, no contradiction)		[1]	
	(I)	(either ex	statement matching results xact or within limits of experimental accuracy, or wtte referring to specified results	e)	[1] [1] [Total: 10]	

Please note that due to a labelling error on the paper, the final five marks were not considered when deciding the grade thresholds.