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.



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	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) e, single (quality)		[1] [1] [1] [1]	
	(c)	Gradient Clear, or		[1] [1]		
	(d)	z value (z given t		[1] [1] [Total: 10]		
2	(a)	$\theta_{\rm r}$ sensib	ble value		[1]	
		Table: $t \text{ in s, } \theta \text{ in }^{\circ}\text{C}$ Correct $t \text{ values}$ Table 2.1 temperatures decreasing Table 2.2 temperatures increasing Evidence of temperatures to 1°C				
	(e)	at least 300s and given to nearest 10s or in mins			[1]	
			ent matches readings and justified by reference to reation ison given of changes in temperature and time with r		[1]	
	(g)	constant same tim same the same ma same be	arting temperature t room temperature/avoid draughts/same place ne intervals ermometer (wtte) ass/amount/volume of water eaker			
		lid alway	/s used		[2]	
					[Total: 10]	

	Page 3		Mark Scheme: Teachers' version		Syllabus	Paper	
			IGCSE – October/	November 2010	0625	51	
3	(a) A F C		[1] [1] [1]				
	(b) I		[1]				
	(c) Table: $R \text{ in } \Omega, I \text{ in } A$ All $I \text{ to } 2 \text{ d.p.}$ I values decreasing Final $I \text{ value} = 0.5I_0 (\pm 10\%)$					[1] [1] [1] [1]	
	• •		alculation of 0.5 <i>I</i> ₀ shown (matches results and given			[1] [1] [Total: 10]	
4	Trace Norm Corre Point Initial All lin	[1] [1] [1] [1] [1]					
	(i) <i>6</i>	orrect?	to ± 2°			[1]	
	(j) C	Correct c	alculation of difference			[1]	
	• •		es present and angles in ° once, no contradiction)			[1]	
	(6	either ex	tatement matching results act or within limits of expe referring to specified result		tte)	[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.