MARK SCHEME for the October/November 2012 series

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0625	51
1	(a)	<i>d</i> ₀ less th Diagram Correct <i>I</i> Correct e		[1] [1] [1] [1]	
	(b)	Graph: Axes cor Suitable	y around	[1] [1]	
		All plots	correct to ½ small square		[1]
		Good line	e judgement; single, thin, continuous line		[1]
	(c)		method used and shown on the graph least half of line		[1] [1]
					[Total: 10]
2	(a)	sensible	value for $\theta_{\rm R}$		[1]
	(b)	s T B 0	able: , °C, °C Times 0, 30, 60, 90, 120, 150 Both sets of temperatures present and decreasing – 30s decrease greater than 120 – 150s decrease Evidence of temperatures to 1°C or better		[1] [1] [1] [1] [1]
	(c)		nt matches readings with reference to numbers in table		[1] [1]
	(e)		s of water mperature/draughts		
			ater temperature		[2] [Total: 10]
3	(a)	Ammete	symbols for ammeter, voltmeter and lamps r and voltmeter in correct positions parallel circuit		[1] [1] [1]
	(b)	All voltag	east 2 decimal places ges to at least 1 decimal place calculation of $R_{\rm A}$ and units V, A, Ω at least once		[1] [1] [1]

	Page 3		Mark Scheme	Syllabus	Paper		
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	(c)	[1]					
		(ii) $V_{\rm B} 1 - 2.5 \rm V$					
	(d)	Stateme Justified		[1] [1]			
					[Total: 10]		
4	Tra Nor Ang All I Firs All I	[1] [1] [1] [1] [1]					
	(h)	<i>r</i> value o	correct to $\pm 2^{\circ}$ unit required		[1]		
	(i)	<i>i/r</i> value	correct		[1]		
	(j)		correct to $\pm 2^{\circ}$ unit required values to 2 or 3 significant figures and no unit		[1] [1]		
	(k)	ldea of w	vithin (or beyond) limits of experimental accuracy		[1]		
					[Total: 10]		