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## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## 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		ge 2	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0625	51
1	(a)	Diagram	L values $(1 - 5)$ , d values present and decreasing		[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)	Triangle method used and shown on the graph Using at least half of line			[1] [1]
					[Total: 10]
2	(a)	sensible	value for $\theta_{R}$		[1]
	(b)	s, T B 0	rable: , °C, °C  imes 0, 30, 60, 90, 120, 150  toth sets of temperatures present and decreasing		[1] [1] [1] [1]
	(c)		nt matches readings with reference to numbers in table		[1] [1]
	(e)	Room te	of water mperature/draughts		[2] [Total: 10]
3	(a)	Correct s	symbols for ammeter, voltmeter and lamps		[1]
-	()	Ammeter	r and voltmeter in correct positions parallel circuit		[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, $\Omega$ at least once		[1] [1] [1]

	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0625	51
	(c)	(i) All V	∕ values present		[1]
		(ii) V <sub>B</sub> 1	– 2.5 V		[1]
	(d)		nt matches readings with idea of experimental inaccuracy		[1] [1]
					[Total: 10]
4	Trac Nor Ang All I Firs All p	[1] [1] [1] [1]			
	(h)	r value o	correct to ± 2° unit required		[1]
	(i)	<i>i/r</i> value ⋅	correct		[1]
	(j)		correct to ±2° unit required ralues 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]