## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2013 series

## 0625 PHYSICS

0625/61

Paper 6 (Alternative to 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 May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper
		J	IGCSE – May/June 2013	0625	61
1	(a)	all given	2.0 (accept 2) or 97, 57, 20 to correct unit drawn correctly, corner to corner 20°		[1] [1] [1] [1]
	(b)	number f	from 3 to 20 with no unit		[1]
	(c)		tatement for results (expect Yes) vithin (or beyond) experimental accuracy		[1] [1] [Total: 7]
2	(a)	θ <sub>R</sub> = 23(°	C)		[1]
	(b)		11.9, 11.3, 10.8, 10.4, 10.2, 10.0, 9.9 les to nearest mm n or mm		[1] [1] [1]
	(c)	(i) does	s not go through the origin		[1]
		(ii) <i>d</i> no	t measured from 0°C mark (o.w.t.t.e.)		[1]
	(d)	<i>l</i> value b	ided by any number of divisions etween 89 and 119 mm to 1.00 mm (with unit)		[1] [1] [1]
					[Total: 9]
3	(a)		correct 0.61, 1.82, 3.16, 4.27, 5.48 ues to 2 or 3 significant figures , Ω		[1] [1] [1]
	(b)	suitable s all plots of good line	rectly labelled scales correct to ½ small square e judgement nin, continuous line		[1] [1] [1] [1]
	(c)	using at	method shown on graph least half of line to 0.35 2 or 3 significant figures		[1] [1] [1]
					[Total: 11]

	Pa	ge 3	Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2013	0625	61
4	one both nor	ray trace: line draw n lines in o mals Y to 55 – 65 (l		[1] [1] [1] [1]	
	(d)		nt matches results (expect Yes) vithin (or beyond) experimental accuracy		[1] [1]
	(e)	any one large spa make su observe		[1]	
					[Total: 7]
5	(a)	40.0 or 4	10(cm)		[1]
	(b) accuracy / reliability / check readings / spot anomaly / o.w.t.t.e.			.e.	[1]
	(c) correct method used 30 or 30.0(g)				[1] [1]
	(d)		er quite balances, o.w.t.t.e. erage position / nearest to balance, o.w.t.t.e.		[1] [1]
					[Total: 6]