UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

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

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

Cambridge is publishing the mark schemes for the May/June 2011 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	_
• •		Mark Scheme: Teachers' version Syllabus IGCSE – May/June 2011 0625 raight lines in correct positions continuous, straight, neat and thin 0625 • 4.4 (cm) no ecf ged position in triangle ectly drawn 64.4 (cm) no ecf ged position in triangle	bilo
. ,	Well-judg	- 4.4 (cm) no ecf ged position in triangle ectly drawn	[1] [1] [1]
(c)	Viewing line directly in front of card (owtte)		
		[Tota	l: 6]
(a)	23 ([°] C)		[1]
(b)	tins,θi	in °C	[1]
	T ₁ = 14 T ₂ = 1		[1] [1]
. ,	Use of th All sever	right way round, both labelled with quantity, ignore unit the scale temperature 50 – 80 and time 0 – 200 or 0 – 250, using the whole grid to plots correct to $\frac{1}{2}$ small square e judgement	[1] [1] [1] [1] [1]
		rate of cooling in first 30 s (owtte) ecf possible ing slope of graph (owtte) ecf possible	[1] [1]
		[Total	11]

Pag	ge 3		Mark Scheme: Teachers' version Syllabus	A. C.
			IGCSE – May/June 2011 0625	They want
(a)	(i)		or 5.43 or 5.429 AND 5.9 or 5.94 or 5.938 alues both to 2 significant figures OR both to 3 significant figures, in tabl	Papacambrida
(iii)	V, A	, Ω	
(b)	(i)		ect series circuit ect symbols for ammeter, voltmeter and lamps	[1] [1]
	(ii)	R _T =	8.26(Ω)	[1]
(c)			nt: expect No (ecf available for Yes) imits of experimental accuracy (owtte)	[1] [1]
(d)	Brightness changes (owtte)		[1]	
				[Total: 9]
	CD	drawı	n centre at 90° to MR n correctly t and thin	[1] [1] [1]
(b)	(i)	CN d	drawn correctly	[1]
	(ii)	i = 23	$3(^{\circ}) \pm 1(^{\circ})$ (ecf allowed)	[1]
(c)	(i)		through P_3 and P_4 correct $1(^{\circ}) \pm 1(^{\circ})$	[1] [1]
	Thio Thio	cknes	s of lines s of mirror	
			er can only be read to <u>+</u> 1° OR protractors are not that precise (owtte) as of pins	[2]
				[Total: 9]
1.5 c 100		i		[1]
0.07	7 m ²			[1] [1] [1]
23 c	m			[1]
				[Total: 5]

