UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper

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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper	
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1.	(a)	Three straight lines in correct positions All lines continuous, straight, neat and thin				
	(b)	a = 4.2 – Well-judg Line corr	4.4 (cm) no ecf ged position in triangle ectly drawn		[1] [1] [1]	
	(c)	Viewing	line directly in front of card (owtte)		[1]	
					[Total: 6]	
2.	(a)	23 (°C)			[1]	
	(b)	tins, θ	in °C		[1]	
		T ₁ = 14 T ₂ = 1			[1] [1]	
	(c)	Graph: Axes the Use of th All sever Good line Thin line	right way round, both labelled with quantity, ignore the scale temperature 50 – 80 and time 0 – 200 or 0 \pm to plots correct to $\frac{1}{2}$ small square to judgement	unit – 250, using the v	[1] vhole grid [1] [1] [1]	
	(d)	Greater i Decreasi	rate of cooling in first 30 s (owtte) ecf possible ing slope of graph (owtte) ecf possible		[1] [1]	

	Pa	ge 3	}	Mark Scheme: Teachers' version	Syllabus	Paper
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3.	(a)	(i)	5.4 o <i>R</i> va	or 5.43 or 5.429 AND 5.9 or 5.94 or 5.938 Ilues both to 2 significant figures OR both to 3 signif	icant figures, in ta	[1] able [1]
		(iii)	V, A	, Ω		[1]
	(b)	(i)	Corr Corr	ect series circuit ect symbols for ammeter, voltmeter and lamps		[1] [1]
		(ii)	R _T =	8.26(Ω)		[1]
	(c)	Sta Out	teme tside	nt: expect No (ecf available for Yes) limits of experimental accuracy (owtte)		[1] [1]
	(d)	Brig	ghtne	ss changes (owtte)		[1]
						[Total: 9]
4.	(a)	Noi CD Bot	rmal i draw h nea	n centre at 90° to MR n correctly it and thin		[1] [1] [1]
	(b)	(i)	CN	drawn correctly		[1]
		(ii)	i = 2	$3(^{\circ}) \pm 1(^{\circ})$ (ecf allowed)		[1]
	(c)	(i)	Line r = 2	through P_3 and P_4 correct $(1^\circ) \pm 1(^\circ)$		[1] [1]
	(d)	Any Thi Thi	y two: cknes cknes	ss of lines as of mirror		
		Pro Thi	otracto cknes	for can only be read to \pm 1° OR protractors are not the solution of pins	at precise (owtte)	[2]
						[Total: 9]
5.	1.5 100 0.0 0.1 23 (cm) cm ³ 7 m ² 2 A cm	3			[1] [1] [1] [1] [1]
						[Total: 5]

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Abbreviations in the mark scheme:

ecf = error carried forward. owtte = or words to that effect. c.a.o. = correct answer only