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.

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	Page 2		Mark Scheme: Teachers' version		Paper	
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1.	(a)		raight lines in correct positions continuous, straight, neat and thin		[1] [1]	
	(b)	Well-jud	- 4.4 (cm) no ecf ged position in triangle rectly 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)	Use of th All sever	e right way round, both labelled with quantity he scale temperature 50 – 80 and time 0 – 2 h plots correct to ½ small square e judgement		[1] whole grid [1] [1] [1]	
	(d)		rate of cooling in first 30 s (owtte) ecf possib ing slope of graph (owtte) ecf possible	le	[1] [1]	

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	Page 3	Mark Scheme: Teachers' version Syllabus		Paper		
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3.	. , . ,	 (i) 5.4 or 5.43 or 5.429 AND 5.9 or 5.94 or 5.938 R values both to 2 significant figures OR both to 3 significant figures, in 				
	(iii) ∨,	Α,Ω		[1]		
	. , . ,	prrect series circuit prrect symbols for ammeter, voltmeter and lamps		[1] [1]		
	(ii) <i>R</i> ⊤	- = 8.26(Ω)		[1]		
		nent: expect No (ecf available for Yes) e limits of experimental accuracy (owtte)		[1] [1]		
	(d) Brightn	ness changes (owtte)		[1]		
				[Total: 9]		
4.	CD dra	I in centre at 90° to MR awn correctly eat and thin		[1] [1] [1]		
	(b) (i) CN	N drawn correctly		[1]		
	(ii) <i>i</i> =	$23(^{\circ}) \pm 1(^{\circ})$ (ecf allowed)		[1]		
		ne through P ₃ and P ₄ correct = 21(°) ± 1(°)		[1] [1]		
		o: ess of lines ess of mirror				
		ctor can only be read to <u>+</u> 1° OR protractors are no ess of pins	ot that precise (owtte)	[2]		
				[Total: 9]		
5.	1.5 cm 100 cm ³ 0.07 m ² 0.12 A 23 cm			[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