

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.



	Pa	ge 2	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0625	61
1.	(a)		raight lines in correct positions continuous, straight, neat and thin		[1] [1]
	(b)	Well-judg	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	right way round, both labelled with quantity, ignore the scale temperature 50 – 80 and time 0 – 200 or 0 to plots correct to $\frac{1}{2}$ small square to judgement		[1] whole grid [1] [1] [1] [1]
	(d)		rate of cooling in first 30 s (owtte) ecf possible ing slope of graph (owtte) ecf possible		[1] [1]

	Page 3		5	Mark Scheme: Teachers' version	Syllabus	Paper	
				IGCSE – May/June 2011	0625	61	
3.	(a)	 (a) (i) 5.4 or 5.43 or 5.429 AND 5.9 or 5.94 or 5.938 <i>R</i> values both to 2 significant figures OR both to 3 significant figures, in tabl 					
		(iii)	V, A	λ, Ω		[1]	
	(b)	(i)		rect series circuit rect symbols for ammeter, voltmeter and lamps		[1] [1]	
		(ii)	R _T =	= 8.26(Ω)		[1]	
	(c)			ent: expect No (ecf available for Yes) limits of experimental accuracy (owtte)		[1] [1]	
	(d)	Brig	ghtne	ess changes (owtte)		[1]	
						[Total: 9]	
4.	(a)	Nor	mal i	in centre at 90° to MR		[1]	
	(u)	CD	draw	n correctly at and thin		[1] [1]	
		DOI	ii noc			[']	
	(b)	(i)	CN	drawn correctly		[1]	
		(ii)	i = 2	$23(^{\circ}) \pm 1(^{\circ})$ (ecf allowed)		[1]	
	(c)	(i)	Line <i>r</i> = 2	through P_3 and P_4 correct 21(°) ± 1(°)		[1] [1]	
	(d)		/ two:				
		Thi	cknes	ss of lines ss of mirror			
				or can only be read to <u>+</u> 1° OR protractors are not th ss of pins	at precise (owtte)	[2]	
						[Total: 9]	
5.	1.5		ł			[1]	
	0.0) cm ³ 7 m ²				[1] [1]	
	0.1 23 ([1] [1]					
						[Total: 5]	

Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2011	0625	61

Abbreviations in the mark scheme:

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