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

0625/51

Paper 5 (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 Syllab						/llabus	ıs Paper						
						IGO	CSE -	May/Jเ	une 2	2011			0625		51	
1	(a)	Lengths 21.0 cm, 14.9 cm			n, 25.7	'cm, all	l ± 2m	nm – uni	t neede	ed			[1]		
	(e)	(i)				ly plac nd labe		correc	t outl	ine					[1 [1	
		(ii)	Cros	sses	small	, neat,	positi	ons sei	nsible	e (one e	ach side	e)			[1]
	1	(iii)					ely (± point,	1mm) within	5mm						[1 [1	
	(f)	f) a correct to ± 1mm Well-judged position Line correctly drawn								[1 [1 [1]					
	(g) Viewing line directly in front of card/perpendicular to card Any clear explanation of how to avoid parallax/shine a light from the front/w stops swinging/minimise distance between card and plumbline.							/wait unt	il card							
															[Total: 10]
2	(a),	(a), (b) t in s, θ in °C Correct times 0, 30, 60, 90, 120, 150, 180 Temperatures falling						[1 [1 [1]							
	(c)	C) T ₁ and T ₂ correct					[1]								
	(d)	Axes, correct way around, both labelled with quantity Scales suitable All plots correct to ½ small square Good line judgement with thin line								[1 [1 [1]					
	(e)	(i)	Fast	ter ra	ite of	cooling	g in firs	st 30s ((owtte	e) – allov	v ecf fro	om (c) (i) (ii)		[1]
		(ii)	Decr	reas	ing slo	ppe of	line (o	wtte)							[1]
															[Total: 10]]

	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2011	0625	51
3	Both <i>I</i> to <i>R</i> values	o at least 1 d.p. and < 3V at least 2 d.p. and < 1A correct consistent 2 or 3 significant figures		[1] [1] [1] [1]
	(d) Vand I p R _T correc	present ct and different from $R_{ m S}$		[1] [1]
		statement – expect no g justification (using idea of experimental accuracy)		[1] [1]
	(f) Filament	s glow		[1] [Total: 10]
4	Trace: Normal at 90 All lines presidence of the correct polynomial	[1] [1] [1] [1] [1] [1]		
	Thicknes Thicknes	es of lines es of mirror es of protractor (owtte) es of pins		[2] [Total: 10]