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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	Pa	ge 2	Mark Scheme: Teachers' version	Syllabus	Paper
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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)	t in s, 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 e judgement		[1] vhole 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]
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3.				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 signif	icant figures, in tal	[1] ble [1]
		(iii)	V, A	, Ω		[1]
	(b)	(i)		rect series circuit rect symbols for ammeter, voltmeter and lamps		[1] [1]
		(ii)	R _T =	= 8.26(Ω)		[1]
	(c)			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)	CD	draw	n centre at 90° to MR yn correctly at and thin		[1] [1] [1]
	(b)	(i)	CN	drawn correctly		[1]
		(ii)	i = 2	$23(^{\circ}) \pm 1(^{\circ})$ (ecf allowed)		[1]
	(c)	(i)	Line r = 2	through P_3 and P_4 correct 21(°) ± 1(°)		[1] [1]
	(d)	Thi Thi	cknes	ss of lines ss of mirror		
				or can only be read to <u>+</u> 1° OR protractors are not these of pins	at precise (owtte)	[2]
						[Total: 9]
5.) cm ³ 7 m ² 2 A				[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