

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	Syllabus	Paper		
			IGCSE – May/June 2011	0625	51		
1	(a)	Leng	ths 21.0 cm, 14.9 cm, 25.7cm, all ± 2mm – unit needed		[1]		
	(e)		Circles correctly placed on correct outline Circles neat and labelled		[1] [1]		
		(ii) <u>(</u>	<u>Crosses</u> small, neat, positions sensible (one each side)		[1]		
		• •	ines drawn accurately (± 1mm) ines cross at same point, within 5mm		[1] [1]		
	(f)	<i>a</i> cor Well- Line ([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/wait until card stops swinging/minimise distance between card and plumbline.						
					[Total: 10]		
2	(a) ,	[1] [1] [1]					
	(c)	T₁ an	nd T ₂ correct		[1]		
	 (d) Graph: Axes, correct way around, both labelled with quantity Scales suitable All plots correct to ½ small square Good line judgement with thin line 						
	(e)	(i) F	Faster rate of cooling in first 30s (owtte) – allow ecf from	n (c) (i) (ii)	[1]		
		(ii) [Decreasing slope of line (owtte)		[1]		
					[Total: 10]		

	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2011	0625	51
3	(a), (b), (c) V, A, Ω Both <i>V</i> to Both <i>I</i> to <i>R</i> values <i>R</i> values		[1] [1] [1] [1] [1]	
	(d) Vand I µ R _⊺ corre	present ct and different from $R_{\rm s}$		[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 pres CD correct pr AB correct pr P_2P_3 distance Table: <i>i</i> values corr <i>r</i> values corr <i>i</i> = <i>r</i> to 4° (j) Any two:	osition osition $e \ge 5.0$ cm rect to 2° rect to 2°		[1] [1] [1] [1] [1] [1] [1]
	Thickness Thickness Thickness	as of lines as of mirror as of protractor (owtte) as of pins		[2] [Total: 10]