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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.

			2		
	Page 2	Mark Scheme: Teachers' version	Syllabus		
		IGCSE – May/June 2011	0625		
1	(a) Lengths 21.0 cm, 14.9 cm, 25.7 cm, all ± 2mm – unit needed				
		Circles correctly placed on correct outline Circles neat and labelled	Syllabus 7 Day 7 O Canning (1)		
	(ii)	Crosses small, neat, positions sensible (one each side)	[1]		
		Lines drawn accurately (± 1mm) Lines cross at same point, within 5mm	[1] [1]		
	Well	errect to ± 1mm l-judged position e 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/wait until car stops swinging/minimise distance between card and plumbline.				
			[Total: 10]		
2	Corr	s, θ in °C rect times 0, 30, 60, 90, 120, 150, 180 nperatures falling	[1] [1] [1]		
(c) T ₁ and T ₂ correct		nd T ₂ correct	[1]		
	Axes Scal All p	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)	Faster rate of cooling in first 30s (owtte) – allow ecf from	m (c) (i) (ii) [1]		
	(ii)	Decreasing slope of line (owtte)	[1]		
			[Total: 10]		

			The same	
	Page 3	Mark Scheme: Teachers' version	Syllabus	
		IGCSE – May/June 2011	0625	
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	Syllabus 0625 ANNAL P O625 O626 O627 OFFICE OF	
	(d) Vand I p R _T correc	present of 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 presc CD correct po AB correct po P ₂ P ₃ distance	osition osition	[1] [1] [1] [1] [1]	
	Table: i values correct to 2° r values correct to 2° $i = r$ to 4°			
	Thicknes Thicknes	es of lines es of mirror es of protractor (owtte) es of pins	[2]	

[Total: 10]