UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2008 question paper

0625 PHYSICS

0625/06

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Syllabus Paper
0625 06

		1000 <u> </u>			
1	(a)	(i) cm, cm, g	[1]		
		(ii) 49.66 (or 49.7), 49.50 (or 49.5), 50.05 (or 50.0) consistent significant figures (3 or 4)	[1] [1]		
	(b)	clear explanation/diagram	[1]		
	(c)	correct method value 49.7 (ignore a fourth significant figure) and allow ecf from (ii)	[1] [1]		
	(d)	d = 1.8 (cm), t = 1.2 (cm) V = 3.05 (cm ³) (ecf) ρ = 16.3 unit g/cm ³ , 2/3 significant figures (ecf)	[1] [1] [1]		
			[Total: 9]		
2	Table:				
	(a)	Units V, A, Ω (symbol/word) R values 1.11, 2.19, 5.05, 9.55 Consistent 2 or consistent 3 sig fig for R	[1] [1] [1]		
	(b)	(i) Yes (if within 10%) No (if not) Circuit 1 and circuit 2 compared	[M1] [A1]		
		(ii) limit current (so temperature not increased) OR switch off between readings OR check for zero error OR Repeats			
		OR Parallax error explained OR Tapping meter	[1]		
			[Total: 6]		
3	Ter Sui Plo Lin	aph: mperature axis labelled θ/°C table scales (plots occupy at least ½ grid) ts correct to nearest ½ square (–1 each error) es well judged curves es thin	[1] [1] [2] [1] [1]		
	(b)	Statement: larger surface area increases rate of cooling	[1]		
		Justification: Correct reference to gradients of lines or readings	[1]		
			[Total: 8]		

Mark Scheme IGCSE – May/June 2008

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4 Trace:

		all lines present, thin, neat and in correct area normal at 90° (by eye)	
	and	d EF at 30° to normal (by eye) e KJ to at least beyond P ₄	[1] [1]
	(b) (i)	a = 12-13 (mm) no ecf	[1]
	(ii)	b = 40 (mm) no ecfa and b both with appropriate unit	[1] [1]
	(c) (i)	& (ii) c recorded and d = 44 (mm)	[1]
	(iii)	correct calculation of <i>n</i> , value 1.43 (ecf) 2/3 significant figures with no unit	[1] [1]
			[Total: 9]
5	(a) (i) (ii)	triangle method used (whether or not shown on graph) Triangle using more than half line and position indicated on graph Expect G = 4.00–4.35 (but allow correct working from points read from beyond 1.0 on x axis) Expect g = 9.07–9.87 (ecf from G) greater accuracy/average value	[1] [1] [1] [1]
	(b) (i)	amplitude length (other possible correct responses shape/size of bob and number of swings)	[1] [1]
	(ii)	does not affect time	[1]
			[Total: 8]