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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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2)	Mark Scheme	Syllabus	Paper
				IGCSE – May/June 2008	0625	06
1	(a)	(i)	cm,	cm, g		[1]
		(ii)		6 (or 49.7), 49.50 (or 49.5), 50.05 (or 50.0) sistent significant figures (3 or 4)		[1] [1]
	(b)	clea	ar exp	planation/diagram		[1]
	(c)		ue 49	nethod .7 (ignore a fourth significant figure) allow ecf from (ii)		[1] [1]
	(d)	V =	3.05	cm), $t = 1.2$ (cm) (cm³) (ecf) unit g/cm³, 2/3 significant figures (ecf)		[1] [1] [1] [Total: 9]
2	Table:					
	(a)	Rv	alues	A, Ω (symbol/word) 1.11, 2.19, 5.05, 9.55 nt 2 or consistent 3 sig fig for R		[1] [1] [1]
	(b)	(i)		(if within 10%) No (if not) uit 1 and circuit 2 compared		[M1] [A1]
		(ii)	OR : OR :	current (so temperature not increased) switch off between readings check for zero error Repeats		
				Tapping meter		[1]
						[Total: 6]
3	Sui Plo Line	nper table ts co	e scal errect ell jud		[1] [1] [2] [1] [1]	
	(b)	larg		rface area increases rate of cooling		[1]
				reference to gradients of lines or readings		[1]
						[Total: 8]
3	Ter Sui Plo Line Line	aph: nper table ts co es w es th Sta larg	OR O	switch off between readings check for zero error Repeats Parallax error explained Tapping meter axis labelled θ /°C es (plots occupy at least ½ grid) to nearest ½ square (–1 each error) dged curves nt: rface area increases rate of cooling ion:		[Total: ([[[[

Mark Scheme	Syllabus	Paper
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		,

4 Trace:

	` '	all lines present, thin, neat and in correct area normal at 90° (by eye)		
	an	and EF at 30° to normal (by eye) line KJ to at least beyond P ₄		
	(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) (b) (i)	(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)	[1] [1] [1] [1] [1] [1]	
	(ii)	does not affect time	[1]	
			[Total: 8]	