UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper for the guidance of teachers

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, 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.

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	Paç	ge 2	Mark Scheme: Teachers' version	Syllabus 0625	Paper 06		
1 (a)	<i>d</i> 2.5 (cm <i>x</i> 14.5 (c		0625	[1]		
		diagram	showing blocks correctly placed across the ends ition (or distance) shown correctly		[1] [1]		
(1	b)	(i) V _e 7	1.1 - 71.2 (cm ³) ecf allowed		[1]		
		(ii) mea	asuring cylinder reading 56 (cm³)		[1]		
	(05–2.08 (or 2.1) ecf allowed n ³ <u>and</u> 2 or 3 significant figures		[1] [1]		
					[Total: 8]		
2 (a)	87 (°C)			[1]		
(1	b)	s, °C, °C			[1]		
((c) A ecf allowed justified by reference to readings (up to 90s) with comparison of drops in temperat numbers) given (ecf allowed)						
(4	d)	room ten carry out same the	temperature nperature t at same time ermometer (words to that effect)				
			esition of thermometers ne intervals		[2]		
					[Total: 6]		
3 (a)		s 0.553, 1.55, 2.74, 3.74, 4.92		[4]		
			more significant figures) ent 3 or consistent 4 significant figures for final fou	ur entries	[1] [1]		
(1	b)		pelled and scales suitable (must include origin)		[1]		
			rrect to $\frac{1}{2}$ square (-1 each error or omission) ged str. line taking account of all points and reach	ning an axis	[2] [1] [1]		
(c)		nt proportional (wtte) or as x increases, R increastion straight line through origin	ses	[1] [1]		
(d)		dication of method on graph value to ½ square		[1] [1]		

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	(e)	or add (v	ent/switch off between readings variable) resistor/lamp e voltage/power		[1]
					[Total: 12]
4	(a)	4.0 (cm) 6.0 (cm)			[1] [1]
	(b)	f values	of allowed 11.88 (11.9), 12.00 (12.0) ent 3 or more significant figures		[1] [1] [1]
	(c)		f 11.9, 11.94, 11.95, 12.0, 12 (cm) ecf allowed ficant figures		[1] [1]
	(h)	slowly m clamp ru avoid pa object/le	from arkened room oving lens back and forth to get good image le or place on bench rallax action given ns/screen perpendicular to bench nd lens same height from bench		
		repeats	ia iono camo noigne irom ponon		[2]
					[Total: 9]
5	(a)		t position with suitable number(s) rectly tilted, and on bench (or arrow to indicate)		[1] [1]
	(b)	Position	from: s taken at either side/diameter of cylinder of mid point found sition of centre		[2]
		a.n por			[^]
	(c)	34.5 <u>cm</u>			[1]
					[Total: 5]

Mark Scheme: Teachers' version

Syllabus

Paper

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