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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	Pa	ge 2	Mark Scheme: Teachers' version	Syllabus	Paper			
			IGCSE – May/June 2009	0625	06			
1	(a)	(a) d 2.5 (cm)[1]x 14.5 (cm)[1]diagram showing blocks correctly placed across the ends[1]rule position (or distance) shown correctly[1]						
	(b)	(i) V _e 7	71.1 - 71.2 (cm ³) ecf allowed		[1]			
		(ii) mea	asuring cylinder reading 56 (cm ³)		[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]			
	(b)	s, °C, °C	:		[1]			
	(c)	A ecf allowed [1] justified by reference to readings (up to 90s) with comparison of drops in temperatures (with numbers) given (ecf allowed) [1]						
	(d)	room ter carry ou same th	from: temperature nperature t at same time ermometer (words to that effect) osition of thermometers					
			ne intervals		[2]			
					[Total: 6]			
3	(a)	(2,3,4 or	s 0.553, 1.55, 2.74, 3.74, 4.92 more significant figures) ent 3 or consistent 4 significant figures for final fo	our entries	[1] [1]			
	(b)	Plots co	pelled and scales suitable (must include origin) rrect to ½ square (–1 each error or omission) ged str. line taking account of all points and read	ching an axis	[1] [2] [1]			
	(c)		nt proportional (wtte) or as <i>x</i> increases, <i>R</i> increation straight line through origin	ases	[1] [1]			
	(d)		dication of method on graph value to ½ square		[1] [1]			

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	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper	
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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	cf allowed 11.88 (11.9), 12.00 (12.0) ent 3 or more significant figures		[1] [1] [1]	
	(c)		<i>f</i> 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		[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]	
	(c)	34.5 <u>cm</u>			[1]	
					[Total: 5]	