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.

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

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper			
			IGCSE – May/June 2009	0625	06			
1	(a) d 2.5 (cm) x 14.5 (cm) diagram showing blocks correctly placed across the ends rule position (or distance) shown correctly							
	(b)	(i) V _e 7	1.1 - 71.2 (cm ³) ecf allowed		[1]			
		(ii) mea	suring 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)	(b) s, °C, °C						
	 (c) A ecf allowed justified by reference to readings (up to 90s) with comparison of drops in temperatures numbers) given (ecf allowed) (d) Any two from: starting temperature room temperature carry out at same time same thermometer (words to that effect) same position of thermometers 							
		same tim	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 four e	entries	[1] [1]			
	(b)	Plots cor	pelled and scales suitable (must include origin) rect to ½ square (–1 each error or omission) ged str. line taking account of all points and reaching	g an axis	[1] [2] [1] [1]			
	(c)		nt proportional (wtte) or as x increases, R increases tion straight line through origin		[1] [1]			
	(d)		dication of method on graph value to ½ square		[1] [1]			

Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2009	0625	06
	/ curre add (v reduce		[1] [Total: 12]	
4 (a) 4.0 6.0	(cm) (cm)			[1] [1]
fva	alues	cf allowed 11.88 (11.9), 12.00 (12.0) ent 3 or more significant figures		[1] [1] [1]
	average <i>f</i> 11.9, 11.94, 11.95, 12.0, 12 (cm) ecf allowed 2/3 significant figures			
slov clar avc obj obj	e of da wly m mp ru oid pa ect/le ect ar	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		
rep	eats			[2] [Total: 9]
		et position with suitable number(s) rectly tilted, and on bench (or arrow to indicate)		[1] [1]
Pos	ading: sition	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]