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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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CIE is publishing the mark schemes for the May/June 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

D -		Mayle Cahamar Tanahamai	Syllabus 4
Pa	ge 2	Mark Scheme: Teachers' version IGCSE – May/June 2009	Syllabus er 0625
1 (a)	_	n)	Syllabus W. Date er 0625
(b)	(i) V _e 7	1.1 - 71.2 (cm³) ecf allowed	[1]
	(ii) mea	suring 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]
(b)	s, °C, °C		[1]
(c)	•	owed by reference to readings (up to 90s) with comparison) given (ecf allowed)	[1] on of drops in temperatures (with [1]
(d)	room ten carry out same the same po	from: emperature nperature at same time ermometer (words to that effect) sition of thermometers ne intervals	[2]
			[Total: 6]
3 (a)	(2,3,4 or	o.553, 1.55, 2.74, 3.74, 4.92 more significant figures) ent 3 or consistent 4 significant figures for final four e	[1] entries [1]
(b)	Plots cor	elled 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	[1] [2] g an axis [1] [1]
(c)		nt proportional (wtte) or as x increases, R increases ion straight line through origin	[1] [1]

[1] [1]

(d) Clear indication of method on graph Correct value to ½ square

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(e) low current/switch off between readings or add (variable) resistor/lamp or reduce voltage/power

[Total: 12] COM

[Total: 5]

4	(a)	4.0 (cm) 6.0 (cm)	[1] [1]
	(b)	20, 30 ecf allowed f values 11.88 (11.9), 12.00 (12.0) f consistent 3 or more significant figures	[1] [1] [1]
	(c)	average <i>f</i> 11.9, 11.94, 11.95, 12.0, 12 (cm) ecf allowed 2/3 significant figures	[1] [1]
	(h)	Any two from use of darkened room slowly moving lens back and forth to get good image clamp rule or place on bench avoid parallax action given object/lens/screen perpendicular to bench object and lens same height from bench repeats	[2] [Total: 9]
5	(a)	Q correct position with suitable number(s) Rule correctly tilted, and on bench (or arrow to indicate)	[1] [1]
	(b)	Any two from: Readings taken at either side/diameter of cylinder Position of mid point found Mark position of centre	[2]
	(c)	34.5 <u>cm</u>	[1]