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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 Sylla	ibus in er
(a)	IGCSE – May/June 20090625d 2.5 (cm) x 14.5 (cm) diagram showing blocks correctly placed across the ends rule position (or distance) shown correctly		the second secon
(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 າ ³ <u>and</u> 2 or 3 significant figures	[1] [1]
			[Total: 8]
(a)	87 (°C)		[1]
(b)	s, °C, °C		[1]
• •		owed by reference to readings (up to 90s) with comparison of drop) given (ecf allowed)	[1] os 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]
(a)	(2,3,4 or	0.553, 1.55, 2.74, 3.74, 4.92 more significant figures) nt 3 or consistent 4 significant figures for final four entries	[1] [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 an axis	[1] [2] [1] [1]
(c)		nt proportional (wtte) or as <i>x</i> increases, <i>R</i> increases ion straight line through origin	[1] [1]

Page 3	Mark Scheme: Teachers' version	Syllabus Syllabus	
	IGCSE – May/June 2009	0625	
or add (va	it/switch off between readings riable) resistor/lamp voltage/power	Syllabus 0625 [Total: 12]	
(a) 4.0 (cm) 6.0 (cm)		[1] [1]	
	allowed 1.88 (11.9), 12.00 (12.0) nt 3 or more significant figures	[1] [1] [1]	
	11.9, 11.94, 11.95, 12.0, 12 (cm) ecf allowed cant figures	[1] [1]	
slowly mo clamp rule avoid para object/len	om kened room ving lens back and forth to get good image or place on bench allax action given s/screen perpendicular to bench I lens same height from bench	[2]	
		[Total: 9]	
• •	position with suitable number(s) ectly tilted, and on bench (or arrow to indicate)	[1] [1]	
Position o	om: taken at either side/diameter of cylinder f mid point found tion of centre	[2]	
,			
(c) 34.5 <u>cm</u>		[1]	
		[Total: 5]	