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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0625 PHYSICS

0625/51

Paper 5 (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.

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

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	4
			IGCSE – May/June 2012	0625	Pan I
1	(a)	V _G corre	80, $V_2 > V_1$ ct w ml) at least once, not contradicted		Da Cambridge
	(b)	-	70, $V_4 > V_3$ see correct		[1] [1] [1]
	(c)	V _W prese	ent and within \pm 5 cm ³ of V_A		[1]
	(d)	Som V _w : Wate Either (a	om: er increases V ₄ / tube not pushed in far enough ee water in test-tube er remaining in tube / measuring cylinder ccept only once): suring cylinder readings not very sensitive		
			raction produces large percentage uncertainty		[3]
			addien produces large personlage andertamity		[0]
					[Total: 10]
2	(a)	Sensible	value for θ_R (15(°C) to 50(°C))		[1]
	(b)	Tempera	d values 100, 80, 60, 40, 20, 10 tures increasing (accept first two readings identical) e of temperatures to at least 1°C)	[1] [1] [1] [1]
	(c)		nt and greater or equal to $ heta_{ m H}$ lifference AND higher, lower or same to match diffe	rence (expect higher)	[1] [1]
	(d)	Draughts Room te	s mperature / humidity		[1] [1]
	(e)	One fron	n: Avoidance of parallax explained Waiting time between readings		[1]

[Total: 10]

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Page 3		Mark Scheme: Teachers' version	Syllabus	.0
		IGCSE – May/June 2012	0625	Day
ì	/ to at le	A) (no mark awarded) east 1 d.p. and < 3 V ast 2 d.p. and < 1 A		M. Papacambrios
, , , , , , , , , , , , , , , , , , ,	Suitable All plots Good lin	rrectly labelled and correct way around scales – plots occupy at least half the grid correct to ½ small square le judgement AND thin, continuous line AND ploe large 'blobs')		[1] [1] [1]
		method using line drawn and shown (no line 1 least half of line	max)	[1] [1]
		gnificant figures, value matching G t Ω / ohm(s)		[1] [1] [Total: 10]
(c) x	record	ed and < 40 cm		[1]
		ed > 40 cm in m, cm or mm		[1] [1]
(f) <i>f</i>	correct			[1]
t	wo <i>f</i> val	5–85 cm lues the same to within ± 1 cm alues to 2 or 3 significant figures, consistent		[1] [1] [1]
		statement for results (expect Yes) within (or beyond) experimental accuracy		[1] [1]
\' \	How to a Moveme Mark len Metre ru Object, I	m: larkened room avoid parallax when taking readings ent of lens back and forth to obtain clearest images his holder to show position of centre of lens hile clamped or on bench lens and screen all perpendicular to bench and lens same height above bench	ge	[1]
	ουj ο υι α	ina ione samo noigni above benon		
				[Total: 10]