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

0625/05

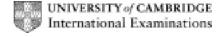
Paper 5 (Practical), maximum raw mark 40

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.

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

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.



	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2009	0625	05
1	(a)	d value 1 diagram correct c		[1] [1] [1]	
	(b)	mass of	tube 20–35 (g)		[1]
	(c)	V _i record	led and correct calculation of density		[1]
	(d)	V_1 , V_2 an m_2 20–38 volumes		[1] [1] [1]	
	(e)		ent, $ ho$ values same to within 0.5 g/cm 3 unit and 2/3 sf		[1] [1] [Total: 10]
2	(a)-	t in s θ in t values (Thermon Thermon Thermon	n °C 0, 30, 60, 90, 120, 150, 180 meter A , temperatures decreasing meter B , temperatures decreasing meter B , temperatures decreasing less rapidly e of temperatures to 1°C		[1] [1] [1] [1] [1]
	(e)	Justified	nt matches readings by reference to readings son given of drops in temperature with numbers		[1] [1]
	(f)	constant carry out same the same the	arting temperature troom temperature tat same time ermometer (words to that effect) ermometer positions		701
		same tim	ne intervals		[2]
					[Total: 10]

Page 3		ge 3	Mark Scheme: Teachers' version IGCSE – May/June 2009	Syllabus 0625	Paper 05
3	(d)	I in A to 2	2 d.p. < 2 A	3023	[1]
	(a)-	Table: correct x	values (0.1, 0.3, 0.5, 0.7, 0.9) all < 2.5 V and to at least 1 d.p. correct		[1] [1] [1]
	(i)	All plots	elled and scales suitable correct to ½ square ged line, continued to an axis		[1] [1] [1]
	(j)		nt proportional (words to that effect, including as x in tion straight line through origin	creases, <i>R</i> increas	ses) [1]
	(k)		dication of method on graph value to ½ square		[1] [1]
					[Total: 10]
4	(a)-	Table: correct <i>u</i> <i>u</i> and <i>v</i> ii <i>v</i> values	values 25.0 (cm), 45.0 (cm) n cm 35–40 and 20–25 consistent 3 or more significant figures		[1] [1] [1] [1]
	(h)	2/3 signif	verage value for <i>f</i> ficant figures <i>f</i> 14–16 cm		[1] [1] [1]
	(i)	use of da slowly m clamp ru avoid pa lining up mark cer	statement (1) with matching explanation (1) from: arkened room; to see image clearly (1 + 1) oving screen back and forth; to get clear image (1 - le or place on bench; to obtain accurate distance merallax; looking perpendicularly at rule (1 + 1) of object and lens; to obtain clear image (1 + 1) after of lens on block; to obtain accurate distance means vertical; to obtain clear image (1 + 1)	easurements (1 +	,
		object ar	nd lens same height from bench; to obtain clear imag	je (1 + 1)	[2]
					[Total: 10]