UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2006 question paper

0625 PHYSICS

0625/05

Paper 5, maximum raw mark 40

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These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

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

CIE is publishing the mark schemes for the May/June 2006 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



UNIVERSITY of CAMBRIDGE International Examinations

		Page 1	Mark Scheme	Syllabus	Paper]
			IGCSE – May/June 2006	0625	05	
1	(a)	<i>M</i> in g, se average <i>i</i>	ensible value n value correct			[1] [1]
	(b)	<i>h</i> in mm, sensible value <i>t</i> value correct (in mm)				[1] [1]
	(c)	<i>l</i> and <i>w</i> ir Calculatio	nm, sensible values (93 – 97, 53 – 57) on of <i>V</i> , unit mm ³			[1] [1]
	(d)	<i>d</i> value c unit g/mn 2/3 sf	orrect J ³			[1] [1] [1]
	(e)	estimate	of <i>V</i> _a 10 000 – 20 000 mm ³ (2/3 sf only)			[1]
					[ТОТ]	AL: 10
2	(a)	Diagram: All correct Power so Voltmeter	t symbols urce, lamp and ammeter in series in parallel with lamp			[1] [1] [1]
	4.5					
	(b)	(i) I_1 to I_1 to I_1 to I_2	2 dp at least 1 dp			[1] [1]
		(ii) Corre	ect calculation of R_1			[1]
	(c)	(i) I ₂ and	V ₂ present			[1]
		(ii) R₂ < all ur both	R₁ hits correct R to 2/3 sf			[1] [1] [1]
					[ТОТ]	AL: 10]
3	(a)	diagram o	or description showing ends at same height above bench			[1]
(b))-(f)	five comp 1/ <i>d</i> value consister	lete sets of <i>F</i> and <i>d</i> readings s: 1.11, 1.18, 1.25, 1.33, 1.43 t 2/3 sf			[1] [1] [1]
	(g)	Graph: <i>F</i> axis su Plots corr Well judg	itable rect to ½ sq ed, thin line			[1] [1] [1]
	(h)	triangle n correct G	nethod using at least ½ line value			[1] [1]
	(i)	Correct V	V in range 80 – 150 g, with correct unit and 2/3 sf			[1]
	(-)				(TAT	L · J
					וטו	AL: 10]

Pag	ge 2	Mark Scheme		Paper	
		IGCSE – May/June 2006	0625	05	
race:					
a)-(i), ((k) and	(I) Neat and complete			
b)	Norm	al at 90° (by eye)			
c)	EFN =	= 30° <u>+</u> 2°			
f)	$P_3 P_4$	distance <u>></u> 5 cm			
k)	FI = <i>k</i>	o to 2 mm			
I)	IJ cor	rectly drawn at 90°			
h)	Cand	idate's a distance correct to 2 mm			
m)(j)	Cand	idate's <i>b</i> & <i>c</i> distances correct to 2 mm			
n)	<i>n</i> valu 2/3 sf	ie correct and no unit			
				[ТОТ/	۹L:

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