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

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.



		Page 1	Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2006	0625	05
1	(a)		nsible value ı value correct		[1] [1]
	(b)		sensible value rrect (in mm)		[1] [1]
	(c)		mm, sensible values (93 – 97, 53 – 57) n of <i>V</i> , unit mm ³		[1] [1]
	(d)	<i>d</i> value co unit g/mm 2/3 sf			[1] [1] [1]
	(e)	estimate o	of <i>V</i> _a 10 000 – 20 000 mm ³ (2/3 sf only)		[1] [TOTAL: 10]
2	(a)	Diagram: All correct symbols Power source, lamp and ammeter in series Voltmeter in parallel with lamp			[1] [1] [1]
	(b)		2 dp at least 1 dp		[1] [1]
		(ii) Corre	ct calculation of R_1		[1]
	(c)	(i) I_2 and Λ	V_2 present		[1]
			R ₁ its correct R to 2/3 sf		[1] [1] [1]
					[TOTAL: 10]
3	(a)	diagram o	r description showing ends at same height above bench		[1]
(b)-(f)		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)		table ect to ½ sq ed, thin line		[1] [1] [1]
	(h)	triangle me	ethod using at least ½ line value		[1] [1]
	(i)	Correct W	/in range 80 – 150 g, with correct unit and 2/3 sf		[1]
					[TOTAL: 10]

Pag	e 2	Mark Scheme	Syllabus	Paper
		IGCSE – May/June 2006	0625	05
race:				
a)-(i), (k) and	(I) Neat and complete		
(b)	Norma	al at 90° (by eye)		
(c)	EFN =	= 30° <u>+</u> 2°		
(f)	$P_3 P_4$	distance <u>></u> 5 cm		
(k)	FI = <i>b</i>	to 2 mm		
(I)	IJ cori	rectly drawn at 90°		
(h)	Candi	date's a distance correct to 2 mm		
(m)(j)	Candi	date's b & c distances correct to 2 mm		
(n)		e correct and no unit		
				[ТО

4