## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

## MARK SCHEME for the May/June 2006 question paper

## **0625 PHYSICS**

0625/06

Paper 6, 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	06	
1	(a)	(i)	1.6 (	(cm) 16 (mm)			[1]
		(ii)		(cm) 1.6 (mm) in cm (or mm)			[1] [1]
	(b)	(i)	1 = {	5.8 cm and w = 6.0 cm (58 mm, 60 mm)			[1]
		(ii)		5.568 (or 5.57) cm³ (or mm³)			[1] [1]
	(c)			(2/3 sf) (or g/mm <sup>3</sup> )			[1] [1]
	(d)	V <sub>a</sub> =	7/8/9/	/10 cm <sup>3</sup>			[1]
						т	OTAL 9
2	(a)	corre		nmeter and voltmeter symbols wer source, variable resistor and lamp symbols cuit			[1] [1] [1]
	(b)	(i)	A; V	; Ω			[1]
		(ii)		or 5.79 or 5.792; 2.9 or 2.89 or 2.889 sistent 2/3 sf			[1] [1]
						т	OTAL 6
3	(a)	All lir	nes pr	resent and neat, a = 1.5 cm			[1]
		(iv)	b = 4	4.3 cm			[1]
		(iv)	FI =	4.3 cm (or cand's a value)			[1]
		(v)	IJ m	eets NN' at right angle (by eye)			[1]
		(vi)	с со	rrect to <u>+</u> 1 mm, 2.1 cm			[1]
		(vii)		lculation correct of and no unit (1.4)			[1] [1]
	(b)	) repeats and averages greater pin spacing					
						т	OTAL 9

		Page 2		Mark Scheme	Syllabus	Paper	
				IGCSE – May/June 2006	0625	06	
4	(a)	(i)	24(°	C)			[1]
		(ii)	6(°C	;;; 4(°C) (ecf)			[1]
	(b)	Heat lost to surroundings round flame/to gauze/tripod					
	(c)	c) Variable resistor					[1]
						тс	OTAL 5
5	(a)	description / diagram showing 2 equal heights from bench					
	(b)	1.11	(1); 1.	.18(1.176); 1.25(0); 1.33(3); 1.43(1.428)			[1]
	(c)	(i)		s suitable and labelled, false origin as instructed s correct to $\frac{1}{2}$ small sq			[1] [1]
		(ii)		judged best fit line suitably thin			[1] [1]
		(iii)	Mor	gle method seen e than ½ line used dient value correct			[1] [1] [1]
	(d)		ect W sf and	′ value using cand's G in N			[1] [1]
						то	TAL 11