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## **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.

[TOTAL: 10]

	Page 1	Mark Scheme	Syllabu
		IGCSE – May/June 2006	0625
			Call
(a	) <i>M</i> in g, sen		16h
	average m	value correct	The state of the s
(b)	) <i>h</i> in mm, se	ensible value	
	t value corr	rect (in mm)	Syllabu W. Part Add Cannibridge [1]
(c	) landwinr	mm, sensible values (93 – 97, 53 – 57)	[1]
` ,	Calculation	of <i>V</i> , unit mm <sup>3</sup>	[1]
(d	l) <i>d</i> value cor	rect	[1]
•	unit g/mm <sup>3</sup>		[1]
	2/3 sf		[1]
(e	) estimate o	$f V_a 10 000 - 20 000 \text{ mm}^3 (2/3 \text{ sf only})$	[1]
			[TOTAL: 10]
_			[
(a	) Diagram: All correct :	symbols	[1]
		rce, lamp and ammeter in series	[1]
	Voltmeter i	n parallel with lamp	[1]
(b)	(i) $I_1$ to 2	dp	[1]
	$V_1$ to a	t least 1 dp	[1]
	(ii) Correc	t calculation of R₁	[1]
(c	) (i) $I_2$ and $V_2$	present	[1]
	(ii) R <sub>2</sub> < R	1	[1]
		s correct	[1]
	botn <i>R</i>	to 2/3 sf	[1]
			[TOTAL: 10]
(a	) diagram or	description showing	
		ends at same height above bench	[1]
)-(f	f) five comple	ete sets of <i>F</i> and <i>d</i> readings	[1]
		1.11, 1.18, 1.25, 1.33, 1.43	[1]
	consistent	2/3 ST	[1]
(g)	) Graph:	t.I.	741
	F axis suita Plots corre		[1] [1]
	Well judged	•	[1]
(h	) triangle me	thod using at least ½ line	[1]
,	correct G v		[1]
(i)	Correct W	in range 80 – 150 g, with correct unit and 2/3 sf	[1]
(1)	, 55115600		ניו

Page 2	Mark Scheme	Syllabu
	IGCSE – May/June 2006	0625

## Trace:

Do		Mayle Cahama	Syllabu 0625 Abacannania con
Pag	ge 2	Mark Scheme IGCSE – May/June 2006	Syllabu 0625
Trace:		<b>,</b>	SC SIMB
(a)-(i), (	(k) and	(I) Neat and complete	Tag
(b)	Normal at 90° (by eye)		COM
(c)	EFN:	= 30° <u>+</u> 2°	[1]
(f)	$P_3 P_4$	distance ≥ 5 cm	[1]
(k)	FI = <i>b</i> to 2 mm		[1]
<b>(I)</b>	IJ correctly drawn at 90°		[1]
(h)	Cand	lidate's a distance correct to 2 mm	[1]
(m)(j)	Cand	lidate's b & c distances correct to 2 mm	[1]
(n)		ue correct f and no unit	[1] [1]

[TOTAL: 10]