UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the June 2005 question paper

0625 PHYSICS

0625/05

Paper 5 (Practical Test), maximum mark 40

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does 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*.

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

CIE is publishing the mark schemes for the June 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Grade threshold	ds for Syllabus	s 0625 (Physic	s) in the June	2005 examin	MMM, Papac	Cambridge.com
	maximum	m minimum mark required for grade:				
	mark available	А	С	E	F	
Component 5	40	33	26	20	15	

The threshold (minimum mark) for B is set halfway between those for Grades A and C. The threshold (minimum mark) for D is set halfway between those for Grades C and E. The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A* does not exist at the level of an individual component.



June 2005

IGCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0625/05

PHYSICS Practical Test

	Page 1		Syllabus	
	<u> </u>	IGCSE - June 2005	0625	Day
				an.
1	(a) (i)	record of room temp (sensible value)		in Bri
	(ii)	- (V)		Daba Cambridge. [1]
	\···/	θ in °C, V in cm ³		[1]
		6 sets of readings with correct V 0, 20, 40, 60, 80	0, 100	ii 🔪
		Temps decreasing		[1]
	(vi)	y axis labelled		[1]
		y axis suitable (e.g. not '3' scale) and plots occup all plots correct (-1 each error) (better than $\frac{1}{2}$ sq)		
		well judged best fit line)	[2] [1]
	(b)	a sensible comment about heat loss to the surror	undinas	[1]
	(~)		[Total:	
				וטן
2	(a) - (f)	<i>l</i> values 50, 75, 100		[1]
		I in A, V in V, R in Ω , l in cm or m		[1]
		all <i>I</i> to 1 dp or better all <i>V</i> to 1 dp or better		[1] [1]
		all <i>R</i> values correct		[1]
		consistent 2 or 3 sf for R		[1]
		AC R value 2 x AB = AD $(+ 1\Omega)$ AD R value 2 x AC = AB + AD $(+ 1\Omega)$		[1] [1]
	(g)	> AD 2 x AC (<u>+</u> 1Ω)		[1] [1]
			[Total:	: 10]
3	(a) - (e)	3 complete sets		[1]
		average correct		[1]
		correct <i>T</i> values from average <i>t</i> correct <i>T/m</i> values		[1] [1]
		consistent 2 or 3 sf for T/m		[1]
		<i>T/m</i> in s/g		[1]
	(f)	No		[1]
		<i>T/m</i> not constant		[1]
	(g)	time 10 oscillations		[1]
		then divide by 10 <u>or</u> two <i>t</i> values		[1]

			the second	
Page 2	Mark Scheme	Syllabus	S.	
	IGCSE - June 2005	0625	100	
4 (a) - (I)	Traces 3 traces, blocks correct positions neat lines all present all <i>r</i> less than <i>I</i> and correct side of normal all emergent rays in approx correct positions (i of normal to incident ray and approx parallel to For Block Position 1: WX distance at least 5 cm and W on EF YZ distance at least 5 cm	.e. opposite side	444444 (1) (1) (1) (1) (1) (1) (1) (1) (1)	con
(i) - (n)	first <i>r</i> value within $\pm 2^{\circ}$ of trace three <i>r</i> values equal to each other $\pm 2^{\circ}$ all <i>r</i> values $18^{\circ} - 22^{\circ}$		[1] [1] [1]	
(m)	<i>r</i> is constant/no effect		[1]	
			[Total: 10]	