UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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0625 PHYSICS

0625/06

Paper 6 (Alternative to Practical), maximum raw mark 40

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

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 discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Paç	ge 2	Mark Scheme	Syllabus er
		IGCSE – May/June 2007	0625 232
	$\theta_1 = 23$ unit °C c	correctly written	Syllabus 0625 Rabacombridas [1]
	19 (°C) e 34 (°C) e		[1] [1]
(c)	(i) heat	t loss (to surroundings)	[1]
(insu lid spee repe	t to record max temperature	
		ude beaker in calculation	[2]
			[Total: 7]
(a) a		<i>d</i> values correct values for <i>d</i> 5, 10, 15, 20, 25, 30	[1] [1]
(c)	h ₀ = 100	0mm (including unit, cm/m allowed)	[1]
(e)	correct v	values for <i>b</i> 40, 35, 32, 28, 24, 20 (ecf)	[1]
	plots to r best fit st	d axis labelled with symbol / unit nearest ½ sq (-1 each error or omission) straight line ne, thin and best fit	[1] [2] [1] [1]
	line not t OR wher	through origin n <i>b</i> increases, <i>d</i> decreases ative gradient	[1]
(h)	use of s	set square / protractor / spirit level / plumbline	[1]
			[Total: 11]

Page 3		Mark Scheme	Syllabus er	
		IGCSE – May/June 2007	0625	
(a)	both R te	a 3Mark SchemeSyllabusIGCSE – May/June 20070625orrect arithmetic for R values 7.92, 1.98oth R to 2sf OR both to 3sfIl correct units: V, A, Ω nal box (ecf)econd P_i (or i) about 1/c of first		
(b)	final box second	c (ecf) R (or <i>I</i>) about ¼ of first		
(c)	ammete correct p	mbol correct r and voltmeter symbols correct parallel circuit (ONE ammeter and ONE voltmeter, no e opt switch if present, ignore power source or lack of)	extra components, [Total:	
(a)	correct average	arithmetic for <i>f</i> , 0.154, 0.144 (any sf) average <i>f</i> (0.149, ecf) <i>f</i> to 2/3 sf unit for average <i>f</i> (m)		
(b)	metre ru object an mark on take mo choosing parallax			
(c)	inverted			
			[Total:	

Page 4	Mark Scheme	Syllabus er	
	IGCSE – May/June 2007	0625 73	
length / i	load / force / W / L / F ' n / e / x / (<i>l</i> – <i>l</i> ₀)	Syllabus 0625 Papacambridge	
units N, (b) any three			
length of	⁻ spring / <i>l</i> ₀ -/thickness of spring loads		
diameter number coil spac	/ thickness of wire of coils	[3]	

[Total: 7]