UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2007 question paper

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.



	Page 2		Mark Scheme		Syllabus	Paper
			IGCSE – May/June 2	007	0625	6
1 ($\theta_1 = 23$ unit °C co	orrectly written			[1] [1]
(19 (°C) e 34 (°C) e				[1] [1]
(c)	(i) heat	loss (to surroundings)			[1]
	(insul lid spee repe	two from: ation / mat / foil edier transfer ats to record max temperature			
		stirri				[2]
						[Total: 7]
2 (a) a		<i>d</i> values orrect values for <i>d</i> 5, 10, 15, 20, 25	i, 30		[1] [1]
(c)	$h_0 = 100$	mm (including unit, cm/m allowed)			[1]
(e) (correct v	alues for <i>b</i> 40, 35, 32, 28, 24, 20 (ecf)		[1]
(, 	plots to n best fit st	axis labelled with symbol / unit learest ½ sq (-1 each error or omis raight line e, thin and best fit	sion)		[1] [2] [1] [1]
((line not tl OR wher	nrough origin n b increases, d decreases tive gradient			[1]
(h)	use of s	et square / protractor / spirit level /	plumbline		[1]
						[Total: 11]

[Total: 7]

Page 3		ge 3	Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2007	0625	6
3	(a)	both R to	rithmetic for R values 7.92, 1.98 and 2sf OR both to 3sf at units: V , A , Ω		[1] [1] [1]
	(b)	final box second F	(ecf) R (or <i>I</i>) about ¼ of first		[1] [1]
	(c)	ammeter correct p	nbol correct and voltmeter symbols correct arallel circuit (ONE ammeter and ONE voltmeter, no	o extra components,	
		but acce	pt switch if present, ignore power source or lack of)		[1] [Total: 8]
4	(a)	correct a average	rithmetic for <i>f</i> , 0.154, 0.144 (any sf) average <i>f</i> (0.149, ecf) <i>f</i> to 2/3 sf nit for average <i>f</i> (m)		[1] [1] [1]
	(b)	metre rul object ar mark on take mor choosing parallax,			[2]
	(c)	inverted			[1]

Page 4	Mark Scheme	Syllabus	Paper
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5	(a)	weight / load / force / W / L / F	[1]
		length / l	[1]
		extension / e / x / (l – l_0)	[1]
		units N, mm, mm	[1]

(b) any three from
length of spring / l₀
diameter/thickness of spring
range of loads
length of wire
diameter / thickness of wire
number of coils
coil spacing
do NOT allow 'size' or room temperature

[3]

[Total: 7]