UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2004 question paper

0625 PHYSICS

0625/05

Paper 5 (Practical Test), maximum mark 40

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 November 2004 question papers for most IGCSE and GCE Advanced Level syllabuses.

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Grade thresholds taken for Syllabus 0625 (Physics) in the November 2004 examination.

	maximum	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.

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November 2004

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0625/05

PHYSICS Practical Test

Page 1	Page 1 Mark Scheme	
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Units

			www.xtrapapers.com
Page 1	Mark Scheme	Syllabus	1.0
	IGCSE – November 2004	0625	100
Units			**************************************
7 sets of readings			1 36.0
decreasing temps with increasing distance			1
evidence o	f θ to 1°C		1
Graph:			
θ axis labe	elled with suitable scale		

(plots in at least 4 large squares)	1
7 plots to nearest ½ sq	1
line judgement	1
line thickness	1
room temp (sensible from graph)	1
explanation (referring to graph)	
(if previous mark scored)	1

TOTAL 10

2	sensible d value with correct unit	1
	clear diagram (blocks parallel)	1
	3 correct 1 (60 + r, 40 + r, 20 + r)	1
	3 different t recorded	1
	first T value correct	1
	2/3 sf in T	1

$$\frac{\mathsf{T}^2}{l}$$
 correct

$$\frac{\mathsf{T}^2}{l}$$
 all same to 1 sf

all
$$\frac{\mathsf{T}^2}{l}$$
 0.039 – 0.041

conclusion - constant

within limits of experimental error

TOTAL 10

Page 2	Mark Scheme	Syllabus
	IGCSE – November 2004	0625

	Page 2	Mark Scheme	Syllabus	3
		IGCSE – November 2004	0625	ASC.
				Style.
3	units for x,	V, I and R (m, V, A, Ω)		1 196
	3 sets of re	eadings		1 1 1
	all V to at le	east 1 dp		1
	correct R v	alue (second)		1
	all R to 2/3	sf		1
	second R/f	irst R 1.4 – 1.6		1
	R increasir	ng		1
	R increase	s with x		1
	justified fro	m results		1
	R value fire	st R x 0.4		1
				TOTAL 10
4	Ray Trace:			
	neat, thin li	nes		1
	all rays pre	sent		1
	i = 30° (<u>+</u> 2	°)		1
	YZ > 5 cm			1
	JK parallel	to block (by eye)		1
	r correct to	<u>+</u> 2°		1
	r <i< td=""><td></td><td></td><td>1</td></i<>			1
	y and x cor	rect to <u>+</u> 1 mm		1
	both units	correct (° and cm/mm)		1
	y = x to 0.5			1
				TOTAL 10