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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	Mark Scheme	Syllabus
	IGCSE – November 2004	0625

Page	Mark Scheme IGCSE – November 2004	Syllabus 0625	Papa
			M. PapaCc
Units			1
7 sets	of readings		1
decre	asing temps with increasing distance		1
evider	nce of θ to 1°C		1
Graph	;		
θ axis	s labelled with suitable scale		
(plots	in at least 4 large squares)		1
7 plots	s to nearest ½ sq		1
line ju	dgement		1
line th	ickness		1
room	temp (sensible from graph)		1
explar	nation (referring to graph)		
(if pre	vious mark scored)		1
		TO	TAL 10
sensib	ole d value with correct unit		1
clear	diagram (blocks parallel)		1
3 corr	ect 1 (60 + r, 40 + r, 20 + r)		1
3 diffe	rent t recorded		1
first T	value correct		1
2/3 sf	in T		1
$\frac{T^2}{l}$ co	prrect		1
$\frac{T^2}{l}$ al	same to 1 sf		1
all $\frac{T^2}{l}$	0.039 – 0.041		1
conclu	ısion – constant		
within	limits of experimental error		1
		TO ⁻	TAL 10

			-
Page 2	Mark Scheme	Syllabus	
	IGCSF - November 2004	0625	Π

Page 2	Mark Scheme	Syllabus	.0
	IGCSE – November 2004	0625	Alar I
			SPAR
units for x	x , V , I and R (m , V , A , Ω)		MMM. PapaCambridge. 1 1
3 sets of	readings		1
all V to at	least 1 dp		1
correct R	value (second)		1
all R to 2/	'3 sf		1
second R	/first R 1.4 – 1.6		1
R increas	ing		1
R increas	es with x		1
justified fi	rom results		1
R value fi	rst R x 0.4		1
			TOTAL 10
Ray Trac	e:		
neat, thin	lines		1
all rays p	resent		1
i = 30° (<u>+</u>	2°)		1
YZ > 5 cm	n		1
JK paralle	el to block (by eye)		1
r correct t	to <u>+</u> 2°		1
r < i			1
y and x c	orrect to <u>+</u> 1 mm		1
both units	s correct (° and cm/mm)		1
y = x to 0	.5 cm		1