UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

www.papacambridge.com MARK SCHEME for the November 2004 question paper

0625 PHYSICS

0625/06

Paper 6 (Alternative to Practical), 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.

					And News	Cambridge.com
Grade threshold examination.	ds taken for Sy	yllabus 0625 (I	Physics) in the	November 20	004	Se.com
	maximum	mir	nimum mark re	equired for gra		
	mark available	А	С	E	F	
Component 6	40	34	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.



November 2004

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0625/06

PHYSICS Alternative to Practical

P	age 1	Mark Scheme		Syllabus	· · ·	0
		IGCSE – November 2	004	0625		Da
						1
(a) (i)	84				1
	(ii)	50				1
		both units correct [°] C and cm ³ (o	r ml)		ANN.	1
(b) (i)	75				1
	(ii)	15 (ecf)				1
	(iii	source of error e.g. thickness of st windings/identified parallax	ring/extension	of string/dia	gonal	1
	(iv	improvement e.g. thinner string/ine no gaps between windings/repeats			ndings/	1
(c) (i)	2.1 (cm)				1
	(ii)	31.5 or 32 cm 2 (2/3 sf and unit rec	luired)			1
(d	l) tim	9				1
	an	ther temperature				1
					ΤΟΤΑΙ	_ 11
(a) (i)	triangle seen				1
		large triangle (> ½ line)				1
		correct readings to ½ sq				1
		G = 0.37 – 0.39				1
	(ii)	$\rho = 2.63$ (ecf)				1
	(••)					
	、 .	2/3 sf and g/cm ³				1
(b) inc	eased accuracy				1
					ΤΟΤΑ	AL 6
(a) (i)	2.15 – 2.25				1
	(ii)	1.1 (+ both with correct unit, cm/m	m) ecf			1
(b) (i)	ll correct 1 values, 91.1, 81.1, 71.1	l, etc			1
	(ii)	all correct T values, 1.93, 1.80, 1.6	7, 1.57, 1.41,	1.28		1
		3/4sf for T				1

Page 2	Mark Scheme	Syllabus	S.
	IGCSE – November 2004	0625	No.
(c) Graph:			WWW. Dabe
scales	suitable T start at 1.0s, T: 10sq : 0.2s		
	1: 10sq : 20cm; both labelled		
	and correct way round		1
plots co	prrect to $\frac{1}{2}$ sq (-1 each error)		2
line jud	gement		1
line thic	ckness		1
(d) 58 cm			1
			TOTAL 11
(a) 4 pins a	at least one separation, separation \geq 5 cm		1
normal	at 90° (by eye)		1
r = 19 -	- 21		1
i = 31 -	- 33		1
unit giv	en for both		1
			TOTAL 5
(a) (i) all l	R correct, 0.464, 0.976, 1.45, 1.88, 2.25		1
2/3	sf for R		1
(ii) V, c	cm, Ω		1
(b) (i) 18,	4.5 (ignore unit)		1
(ii) ans	wer 4		1
(iii) 72			1
(c) microm	leter		1
			TOTAL 7