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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0625 PHYSICS

0625/62

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, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2		Mark Scheme: Teachers' version	/llabus r							
	га	ge z		0625							
1	(a)	70.0, 6		villabus 14. day 15. day 16. d							
	(b)		(i) d against F (or vice versa) OR distance against force/forcemeter reading NOT 'extension', 'forcemeter', quantity expressed just as units								
		(ii) Str	[1] [1]								
	(c)	Would	change forcemeter reading/change mass on rule/wtte	[1]							
	(d)	Check Line up	[1]								
				[Total: 7]							
2	(a)	23 <u>°C</u> r	[1]								
	(b)	Suitabl All plot Good li	correctly labelled with quantity and unit le scales ts correct to ½ small square line judgement continuous line	[1] [1] [1] [1] [1]							
	(c)	Two from the Room to Draugh Initial w	[2] [Total: 8]								
3	(a)		1 = 1.9 = 0.3 nits V and A both correct	[1] [1] [1]							
	(ii)/	(iii) R _P	$_{\rm P}$ = 6.33 and 4 $R_{\rm P}$ = 25.3/25.2 to 2 or 3 sig. figs.	[1] [1]							
	(b)	$R_{\rm S} = 23$	23.8 (Ω) or 24 (Ω)	[1]							
	(c)		ct statement (from candidate's work) atching justification (idea of within or beyond experimental a	accuracy) [1]							

	Page 3				Mark Scheme: Teachers' version Syllabu							vllabu	S	· A	1				
											ne 201				0625		S	3	
	(d)	Circ	cuit: c	cor	rect	sym	bols	for aı	mme	ter, vo	oltmet	er and	lamp in	corre	ct serie	es circu	iit	di	hbridge
	(e)	(i) Change/control current							nt/voltage										TO SE
		(ii)	Тоо	obt	ain i	ang	e of r	eadir	ngs (or wtte	e)								[1]
																	ļ	[Total	: 10]
4	(a)) Blocks parallel with ONE sphere completely between Rule correctly placed											[1] [1]						
	(b)	(i)			_		•			scale menis									[1] [1]
		(ii)	70 ((cm	³)														[1]
		(iii)	0.53	3 cr	n ³ . :	2 or :	3 siar	nifica	nt fia	iures.	with u	ınit							[1]
		(,	0.00	0 0.	, .	_ 0.	o o.g.			, a. oo,								4	
																		[Tota	ai: 6]
5	(a)	Normal at 90° in correct position N at 4 cm above AB and angle of incidence 20° a value 4.3 cm ± 1 mm correct answer only										[1] [1] [1]							
	(b)	 All correct lines drawn, thin and continuous a and b both with consistent, correct unit which matches figures b value 6.2 cm ± 3 mm correct answer only n value range 1.4 – 1.5 after rounding to 2 or 3 significant figures and no unit 											[1] [1] [1] [1]						
	(c)	Pin Pin Vie Ens Use Sha	e fron s well s at le w bas sure p e thin arp pe	II splease sees the s	st 5 s of s ve es cil	cm a pins													[1]
				-															

[Total: 9]