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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

0625/63

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	Syllabus	Paper	
1	(a)		IGCSE – May/June 2012 Values .0, 50.0, 40.0, 30.0, 20.0, 10.0 LLOW m, mm if consistent with figures	0625	63 [1] [1]	
	(b)	TON	ainst <i>F</i> (or vice versa) OR distance against force/forcemeter reading 'extension', 'forcemeter', quantity expressed just as units		[1]	
		(ii) Stra Thro	ight line ough origin or wtte		[1] [1]	
	(c)	Would ch	hange forcemeter reading/change mass on rule/wt	te	[1]	
	(d)	Check di Line up b		[1]		
				[Total: 7]		
2	(a)	23 °C need unit for the mark				
	(b)	Axes cor Suitable All plots Good lin Thin, cor	[1] [1] [1] [1]			
	(c)	Two fron Room te Draughts Initial wa	oning	[2]		
				[Total: 8]		
3	(a)	(i) V ₁ = I ₁ = Unit			[1] [1] [1]	
	(ii)/	(iii) R _P : Ω	= 6.33 and $4R_P$ = 25.3/25.2 to 2 or 3 sig. figs.		[1] [1]	
	(b)	$R_{\rm S} = 23.$	8 (Ω) or 24 (Ω)		[1]	
	(c)		statement (from candidate's work) ching justification (idea of within or beyond experin	nental accuracy)	[1]	

	Page 3			Mark Scheme: Teachers' version	Syllabus	Paper	
	_	-		IGCSE – May/June 2012	0625	63	
	(d)) Circuit: correct symbols for ammeter, voltmeter and lamp in correct series circuit					
	(e)) (i) Chai		nge/control current/voltage		[1]	
		(ii)	Тоо	obtain range of readings (or wtte)		[1]	
						[Total: 10]	
4	(a)	Blo Rul		[1] [1]			
	(b)	(i)		e of sight perpendicular to scale e of sight along bottom of meniscus		[1] [1]	
		(ii)	70 (d	cm ³)		[1]	
		(iii)	0.53	3 cm ³ , 2 or 3 significant figures, with unit		[1]	
						[Total: 6]	
5	(a)	Tra Nor N a a v		[1] [1] [1]			
	(b)	All of a a a b vo to 2	[1] [1] [1] [1]				
	(c)	One Pin Pin Vie Ens Use Sha					
		Sharp pencil Use thin pins					
						[Total: 9]	