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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	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	<b>62</b> [1] [1]	
	(b)	NOT	gainst $F$ (or vice versa) OR distance against force/forcetension', 'forcemeter', quantity expressed just a	_	[1]	
		(ii) Stra Thro	night line Dugh origin or wtte		[1] [1]	
	(c)	Would ch	hange forcemeter reading/change mass on rule/wtt	e	[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 line Thin, cor	[1] [1] [1] [1]			
	(c)	Two from Room te Draughts Initial wa	oning	[2]		
		miliai wa		[Total: 8]		
3	(a)	(i) $V_1 = I_1 = Units$			[1] [1] [1]	
	(ii)/	(iii) R <sub>P</sub> : Ω	= 6.33 and $4R_P$ = 25.3/25.2 to 2 or 3 sig. figs.		[1] [1]	
	(b)	$R_{\rm S} = 23.8$	8 (Ω) or 24 (Ω)		[1]	
	(c)		statement (from candidate's work) ching justification (idea of within or beyond experim	ental accuracy)	[1]	

	Page 3			Mark Scheme: Teachers' version	Syllabus	Paper	
				IGCSE – May/June 2012	0625	62	
	(d)	) Circuit: correct symbols for ammeter, voltmeter and lamp in correct series circuit					
	(e)	e) (i) Cha		nge/control current/voltage		[1]	
		(ii)	Тоо	obtain range of readings (or wtte)		[1]	
						[Total: 10]	
4	(a)	Blo Rul		[1] [1]			
	(b)	(i)		of sight perpendicular to scale of sight along bottom of meniscus		[1] [1]	
		(ii)	70 (d	cm <sup>3</sup> )		[1]	
		(iii)	0.53	cm <sup>3</sup> , 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 from: Pins well spaced Pins at least 5 cm apart View bases of pins Ensure pins vertical Use thin lines Sharp pencil					
		Use thin pins				[1]	
						[Total: 9]	