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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			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)	` '	gainst $F$ (or vice versa) OR distance against force/for (extension), 'forcemeter', quantity expressed just a	_	[1]		
		(ii) Stra Thro	night line Dugh origin or wtte		[1] [1]		
	(c)	Would change forcemeter reading/change mass on rule/wtte					
	(d)	(d) Check distance from bench is the same at two points or wtte/ Line up by eye with windowsill (or suitable horizontal reference)					
					[Total: 7]		
2	(a)	23 <u>°C</u> ne	eed unit for the mark		[1]		
	(b)	Axes correctly labelled with quantity and unit Suitable scales All plots correct to ½ small square Good line judgement Thin, continuous line					
	(c)	(c) Two from: Room temperature/humidity/sun through window/air conditioning Draughts Initial water temperature					
		initial water temperature					
3	(a)	(i) V <sub>1</sub> = I <sub>1</sub> = Unit			[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 (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)	) (i) Char		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	3 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 n vo 2	[1] [1] [1] [1]				
	(c)	One Pin Pin Vie Ens Use Sha					
		Sharp pencil Use thin pins					
						[Total: 9]	