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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2011 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 2011 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	
			IGCSE – May/June 2011	0625	62	
1	(a)	100, 200	, 300, 400, 500		[1]	
	(b)	Scales s All plots Continuo	elled (label and unit) uitable correct to nearest ½ small square ous, straight, well-judged best fit line , neat plots		[1] [1] [1] [1]	
	(c)	$\it F$ correct from graph scale to $\it 1/2$ small square – <u>must see unit of N</u> Clear how obtained				
	(d)	Weight/n	nass/force of rule owtte		[1] [Total: 9]	
2	(a)	<u>23</u> (°C)			[1]	
	(b)		, words or symbols 0, 120, 150, 180		[1] [1]	
	(c)	Uninsulated (owtte) OR no significant difference Justified by reference to temperature differences and time			[1] [1]	
	(d)	(constan tube size thickness volume/a thickness depth (of	nperature/ <u>starting</u> temperature/temperature of <u>hot water</u> ) room temperature/ correct <u>named</u> reference to eneals ame test-tube as of glass amount/level of water as of cotton wool fimmersion) of thermometer			
		(rate of)	stirring		[2]	
	(e)	Any two	suitable insulators (that can be wrapped around tub	e)	[2] [Total: 9]	

	Pa	ge 3	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0625	62
3	(a)		$66, 8.50$ $\frac{1}{100}$ $\frac{1}{$		[1] [1] [1]
	(b)	Yes Within lir	mits of experimental accuracy		[1] [1]
	(c)		ff between readings ow current (owtte)		[1]
	(d)		circuit symbol on correct		[1] [1]
					[Total: 8]
4	(a)	i = 30° (±	±1°) - no penalty for missing or incorrect unit		[1]
	(b)	b = 36mr Lines HF n correct	o 13mm/1.2 to 1.3cm m/3.6cm F and P₄P₃H drawn <u>neatly</u> and <u>correctly</u> tly calculated significant figures, no unit		[1] [1] [1] [1]
	(c)	At least to	5 <u>cm</u> accuracy owtte		[1] [1]
	(d)	Pin· nins	not vertical/not straight		
	(4)	OR pins OR thick	too close ness of lines/size of holes : thickness of ray		[1] [1]
		•	·		[Total: 10]
					[100
5	(a)	L///length	ght/load/Force า		[1]
			ion/x/Δ <i>l/E</i> m, m <u>only</u>		[1]
	(b)	Two from Same dia Same lei	ameter/thickness/cross-sectional area/cross-section	ı	
			temperature		[2]
					[Total: 4]