## 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

0625/63

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 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	63
1	(a)	100, 200	, 300, 400, 500		[1]
	(b)	Scales so 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)		t from graph scale to $\frac{1}{2}$ small square – $\frac{\text{must see uni}}{\text{must see uni}}$	t of N	[1] [1]
	(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)		ted (owtte) OR no significant difference by reference to temperature <u>differences</u> and <u>time</u>		[1] [1]
	(d)	(constantube size thickness volume/atthickness	nperature/ <u>starting</u> temperature/temperature of <u>hot</u> w t) room temperature/ correct <u>named</u> reference to en e/same test-tube s of glass amount/level of water s of cotton wool		
		depth (of (rate of)	f immersion) of thermometer 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	63
3	(a)		6, 8.50 <u>nt</u> 2 or 3 significant figures , Ω in symbols or words		[1] [1] [1]
	(b)	Yes Within lir	nits of experimental accuracy		[1] [1]
	(c)		ff between readings w current (owtte)		[1]
	(d)	Correct of X position	circuit symbol n correct		[1] [1] <b>[Total: 8]</b>
4	(a)	i = 30° (±	:1°) - no penalty for missing or incorrect unit		[1]
	(b)	b = 36mi Lines HF n correct	13mm/1.2 to 1.3cm m/3.6cm and P <sub>4</sub> P <sub>3</sub> H drawn <u>neatly</u> and <u>correctly</u> ly calculated significant figures, no unit		[1] [1] [1] [1]
	(c)	At least to	5 <u>cm</u> accuracy owtte		[1] [1]
	(d)	OR pins OR thick	not vertical/not straight too close ness of lines/size of holes : thickness of ray		[1] [1] [Total: 10]
5	(a)	L/I/length e/extens	ght/load/Force ι ion/x/Δ <i>l/E</i>		[1]
	(b)	Two from Same dia Same lei	ameter/thickness/cross-sectional area/cross-sectional area/cross-section	on	[1]
		(Koom) t	remperature		[2]
					[Total: 4]