## 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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0625	63
1	(a)	100, 200	, 300, 400, 500		[1]
	(b)	Scales s All plots Continuc	elled (label and unit) uitable correct to nearest ½ small square bus, straight, well-judged best fit line , neat plots		[1] [1] [1] [1] [1]
	(c)	F correct from graph scale to $\frac{1}{2}$ 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 <u>differences</u> and <u>time</u>		[1] [1]	
	(d)	(constan tube size thickness volume/a	from: nperature/ <u>starting</u> temperature/temperature of <u>hot</u> wa t) room temperature/ correct <u>named</u> reference to envi 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 tube)	)	[2]
					[Total: 9]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
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3	(a)		36, 8.50 <u>nt</u> 2 or 3 significant figures ′, Ω in symbols or words		[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 = 36m Lines HF n correct	o 13mm/1.2 to 1.3cm m/3.6cm <sup>-</sup> and P <sub>4</sub> P <sub>3</sub> H drawn <u>neatly</u> and <u>correctly</u> tly calculated significant figures, no unit		[1] [1] [1] [1] [1]
	(c)	At least : Greater :	5 <u>cm</u> accuracy owtte		[1] [1]
	(d)	OR pins OR thick	s not vertical/not straight too close cness of lines/size of holes :: thickness of ray		[1] [1] [Total: 10]
5	(a)	L///length	ght/load/Force		[1]
	(b)	Two fron Same di	ameter/thickness/cross-sectional area/cross-section		[1]
		Same le (Room) f	ngth temperature		[2]
					[Total: 4]