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.

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	Page 2		Mark Scheme: Teachers' version		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)	$\it F$ correct from graph scale to $\it 1\!\!\!/_2$ small square – $\it must$ see unit of N 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 thickness depth (of	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 f immersion) of thermometer		103
		(rate of)	stirring		[2]
	(e)	Any two	suitable insulators (that can be wrapped around tub	e)	[2] [Total: 9]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0625	63
3	(a)		6, 8.50 $\underline{\text{nt}}$ 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)		circuit symbol n 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	13mm/1.2 to 1.3cm m/3.6cm and P ₄ P ₃ H drawn <u>neatly</u> and <u>correctly</u> ly calculated significant figures, no unit		[1] [1] [1] [1]
	(c)	At least 5 Greater a	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///length	ght/load/Force		[1]
	(b)	Two from	ameter/thickness/cross-sectional area/cross-sectior	1	[1]
		Same ler (Room) t	ngth emperature		[2]
		, , -			[Total: 4]