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.

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Paper 62

[Total: 9]

Šyllabus 0625

1	(a)	100, 200, 300, 400, 500	[1]
	(b)	Graph: Axes labelled (label and unit) Scales suitable All plots correct to nearest ½ small square Continuous, straight, well-judged best fit line Thin 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	[1] [1]
	(d)	Weight/mass/force of rule owtte	[1] [Total: 9]
2	(a)	<u>23</u> (°C)	[1]
	(b)	s, °C, °C, words or symbols 30, 60, 90, 120, 150, 180	[1] [1]
	(c)	Uninsulated (owtte) OR no significant difference Justified by reference to temperature differences and time	[1] [1]
	(d)	Any two from: initial temperature/starting temperature/temperature of hot water (constant) room temperature/ correct named reference to environmental condition tube size/same test-tube thickness of glass volume/amount/level of water thickness of cotton wool depth (of immersion) of thermometer	
		(rate of) stirring	[2]
	(e)	Any two suitable insulators (that can be wrapped around tube)	[2]

Mark Scheme: Teachers' version IGCSE – May/June 2011

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	Do	ge 3	Mark Scheme: Teachers' version	Syllabus	
	Га	ge s	IGCSE – May/June 2011	0625	Paper 62
3	(a)			3323	[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 = 36mi Lines HF n correct	o 13mm/1.2 to 1.3cm m/3.6cm F and P ₄ P ₃ H 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)	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 n ion/x/∆// <i>E</i>		[1]
	(b)	Two from	ameter/thickness/cross-sectional area/cross-sectior	١	[1]
			temperature		[2]
					[Total: 4]