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.

F	Page 2		Mark Scheme: Teachers' version Syllab		Paper
	-		IGCSE – May/June 2011	0625	63
1 (a	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]
(c		F correct from graph scale to $\frac{1}{2}$ small square – <u>must see unit of N</u> Clear how obtained			
(d	/ (k	Weight/mass/force of rule owtte			
					[Total: 9]
2 (a	a) <u>/</u>	<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]
(c	i (t t t	(constan ube size hickness volume/a hickness	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		[2]
		. /			
(e	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)		36, 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)	One of: Switch o Use of Ic	[1]		
	(d)	Correct o X positio	[1] [1]		
					[Total: 8]
4	(a)	i = 30° (±	±1°) - no penalty for missing or incorrect unit		[1]
	(b)	<i>b</i> = 36m Lines HF <i>n</i> 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] [1]
	(c)	At least : Greater :	5 <u>cm</u> accuracy owtte		[1] [1]
	(d)	•	s not vertical/not straight too close		
		OR thick	iness of lines/size of holes thickness of ray		[1] [1]
					[Total: 10]
5	(a)	L/I/length	ght/load/Force η ion/x/Δl/ <i>E</i>		[1]
		Units N,	m, m <u>only</u>		[1]
	(b)	Two fron Same dia Same lei	ameter/thickness/cross-sectional area/cross-section	1	
			temperature		[2]
					[Total: 4]