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## 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.

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.

		Mark Oak and Track and constant		Cullahua	
	Pa	ge 2	Mark Scheme: Teachers' version	Syllabus	and the same
			IGCSE – May/June 2011	0625	Jac.
1	(a)	100, 200	0, 300, 400, 500		ana Cambridge
	(b)	Scales s All plots Continuo	pelled (label and unit) suitable correct to nearest ½ small square bus, straight, well-judged best fit line e, neat plots		[1] [1] [1] [1] [1]
	(c)		t from graph scale to $\frac{1}{2}$ small square – must see unity obtained	t of N	[1] [1]
	(d)	Weight/n	mass/force of rule owtte		[1]
	()				
					[Total: 9]
2	(a)	<u>23</u> (°C)			[1]
	(b)	s, °C, °C	, words or symbols		[1]
	` ,	30, 60, 9	90, 120, 150, 180		[1]
	(c)	Uninsula	ated (owtte) OR no significant difference		[1]
		Justified	by reference to temperature <u>differences</u> and <u>time</u>		[1]
	(d)	(constantube size thickness volume/athickness	mperature/ <u>starting</u> temperature/temperature of <u>hot</u> want) room temperature/ correct <u>named</u> reference to ente/same test-tube s of glass amount/level of water s of cotton wool		1
		(rate of)	f immersion) of thermometer stirring		[2]
		(. 2.10 01)	·····g		[-]
	(c)	Δην τινο	suitable insulators (that can be wrapped around tube	۵۱	[0]
	(6)	Any two	suitable ilisulators (that can be wrapped around tubi	<del>-</del> )	[2]
					[Total: 9]

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	Page 3		Mark Scheme: Teachers' version	Syllabus	
		9	IGCSE – May/June 2011	0625	
3	(a)		s6, 8.50 nt 2 or 3 significant figures , Ω in symbols or words	Syllabus 14. Day v 0625 Annotation of the syllabus v 10. Day v 10.	
	(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 = 36mr Lines HF n 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 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///length	ght/load/Force	[1]	
	(b)	Units N, Two from	m, m <u>only</u> n:	[1]	
		Same lei	ameter/thickness/cross-sectional area/cross-section ngth temperature	[2]	
				[Total: 4]	