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## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2013 series

## 0625 PHYSICS

0625/52

Paper 5 (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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2		je 2	Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2013	0625	52
1		x and y	t <i>d</i> values 5.(0), 10.(0) y values present , first (x + y) < 46, second < 41 nd y values to nearest mm		[1] [1] [1]
	(b)	(i) <i>M</i>	values both correct – penalise incorrect rounding, 3 or	4 sig. figs. only	[1]
	(	( <b>ii)</b> g/	grams seen at least once		[1]
	<b>(</b> i	-	prrect average gnore sig. figs., but rounding must be correct)		[1]
	(c)	<i>M</i> valu	es same to within 5 g		[1]
		centre mass ) difficult	o from: of mass of rule not at 50.0 cm / non-uniform rule X not uniform / of varying density ty in obtaining balance (o.w.t.t.e.) / slips on pivot / mass mass	ass X not exactly	100 g [2]
	. ,		om: ine through centre of the mass osition of edges of mass on rule		[1] [Total: 10]
2	<b>(a)</b> s	ensible	e value of $\theta_{\rm C}$ (< 40 (°C))		[1]
			asing $\theta$ values (allow one pair of identical values) ace of $\theta$ to at least nearest 1 $^{\circ}$ C		[1] [1]
	(c)	$ heta_{ extsf{H}}$ valu	ue sensible (> 60°C), ignore unit		[1]
	(d)	(i) θ <sub>1</sub>	lower than $ heta_{ extsf{H}}$		[1]
	(	(ii) $\theta_2$	lower than $\theta_1$ and correct unit seen once in (a) – (d)		[1]
			te reasonable fit with readings (must use table reading te given using sensible method	is $\Delta heta$ , or use $ heta_1$ or	$\theta_2$ ) [1]

r age 3	IGCSE – May/June 2013	0625	52
<u>initial</u> <u>initial</u> amou			[2] [Total: 10]
	able: ues present and in cm alues correct		[1] [1]
suital all plo	n: correctly labelled ble scales ots correct to ½ small square line judgement, thin continuous line		[1] [1] [1]
` '	gle method used <u>and shown</u> at least half of line		[1] [1]
	4 – 16 (cm) or 3 significant figures <u>with unit</u>		[1] [1] <b>[Total: 10]</b>
(ii) (iv) (v) (c) (b) (i) (c)	If to at least 1 d.p. and < 1V If to at least 2 d.p. and < 1A correct calculation of $R_1$ If $V_1$ $V_2$ and $V_3$ both < 1V correct calculation and unit seen in (a) correct symbols for lamp, voltmeter correct parallel circuit (including voltmeter) If $V_1$ and $V_2$ and $V_3$ and $V_4$ and $V_5$ and $V_6$ and $V_7$ and $V_8$		[1] [1] [1] [1] [1] [1]
expe	ment matches results and idea of within/beyond limits rimental accuracy / too far apart / too close together % no, < 10 % yes	s of	[1]
(d) bright	•		[1] [Total: 10]

Mark Scheme

Syllabus

Paper

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