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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

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 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 October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2011	0625	52
1	(a)	x and y	values present both less than 40 cm consistently in either mm, cm or m ct in g, with unit		[1] [1] [1]
	(b)	second r $m_2 + m_3$	sets of x , y and m ; both $x + y = 40 \pm 0.5$ cm new set of x , y and m ($m_3 < m_2$) correct (= $m_1 \pm 2$ g) unit for x and y at least once (in (a) or (b))		[1] [1] [1] [1]
	(c)	NOT just more diff any <u>expli</u> more rea rounding	continuous control of misshapen cube		
		modelling	g clay might not have uniform density		[2]
	(d)	mark cer	ntre of bottom of cube / take readings at either side o	of cube	[1] [Total: 10]
2	(a)	$ heta_{\!\scriptscriptstyle h}$ and $ heta_{\!\scriptscriptstyle c}$	sensible values		[1]
	(b)		\prime values in table 10, 20, 30, 40, 50, 60 s decreasing and all between $\theta_{\rm r}$ and $\theta_{\rm h}$		[1] [1]
	(c)	all plots of well-judg	elled and scales suitable correct to nearest ½ small square ged best-fit line and small plots		[1] [1] [1] [1]
constant i constant i same am		same ho constant constant same am	from: t water temperature/initial temperature room/surrounding temperature/other suitable name cold water temperature nount/rate of stirring en for transfer or wtte	d environmental c	
					[2]
	(e)		ce of parallax explained (thermometer or measuring	cylinder)	[4]
		wait ior t	emperature to stabilise		[1]
					[Total: 10]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – October/November 2011	0625	52		
3	(a)	unit at le $V_A > V_B$	ues to 1 decimal place or better and < 2.5V east once and not contradicted and $V_{\rm C} > V_{\rm B}$		[1] [1] [1] [1]		
	(b)	correct s	= $V_{\rm C}$ (within 10%) statement matching results ion matching statement and referring to results		[1] [1] [1]		
	(c)	c) I sensible value and to at least 2 decimal places R correct (ecf), 2 or 3 significant figures, with unit			[1] [1]		
	(d)	voltmete	er correctly shown		[1] [Total: 10]		
4	trac	trace:					
	(a)	 (a) normal at 90° to MR in correct position (b)–(h) all lines neatly drawn in correct position AB in correct position both P₂P₃ distances ≥ 5.0cm P₁ positions correct 			[1]		
	(b)-				[1] [1] [1] [1]		
	(g)	table: i values r values all i = r ([1] [1] [1]		
	(i)	thickness	from: s of lines s of pin holes/pins s of mirror				
			s of protractor		[2]		
					[Total: 10]		