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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 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 October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper			
			IGCSE – October/November 2012	0625	52			
1	(a)	<i>l</i> value 45 – 55 cm / 450 – 550 mm unit required						
	(b)	Use of fice Move rule (Can sco		[1]				
	(c)	t values a	lues (for 10, $not = 9$ swings) ($t_{10} = 14.2$ s) all similar (± 0.2s)		[1] [1] [1] [1]			
	(d)		ion: little or no effect (owtte) allow ecf from 1(c) tion: <i>T</i> values very similar (owtte)		[1] [1]			
	(e)	Any one Reduces Gives a r T is too s Gives an	[1] [Total: 10]					
2	(a)	Sensible	room temperature value		[1]			
	(b)	$\theta_1 < \theta_0$ ar	thot water temperature θ_0 (between 60 and 100) and temperatures in °C at least once, not contradicted correct calculations	d	[1] [1] [1]			
	(c)	$\theta_2 < \theta_1, \ \theta_0 < \theta_B$	$\theta_3 < \theta_2$		[1] [1]			
	(d)	Ratios ca Ratios cl	alculated lose (owtte) or ratios too different (owtte)		[1] [1]			
	(e)	Initial (wa Amount of Time inte	emperature/ draughts/humidity/air conditioning ater) temperature (cold or hot) of stirring erval					
			lume/amount of water/water level face area/shape/material/thickness of beaker		[2]			
			•		[Total: 10]			
					[]			

	Page 3		Mark Scheme		Syllabus	Paper		
			IGCS	E – October/	November 2012		0625	52
3	(a) I_{S} to V_{S} R_{S}		[1] [1] [1]					
	(b) V_P and I_1 present $I_2 \underbrace{\text{and}}_{I_3} I_3 < I_1$ $I_C = I_1 \ (\pm \ 10\%)$ Units A and V both at least once $\underline{\text{and}}$ not contradicted R_P with unit						[1] [1] [1] [1]	
	(c) Circuit: correct symbol for variable resistor (not potential divider symbol) Variable resistor in a correct position						[1] [1] [Total: 10]	
4	(a) and (b) Table: Five <i>v</i> values present Correct <i>d</i> values						[1] [1]	
	All Go	ces corr plots of pod line	rectly labelled correct to ½ s e judgement tinuous line	d and scales s mall square	suitable			[1] [1] [1] [1]
			method used least half of li					[1] [1]
			6 cm (accept nificant figure		nding to 14/16)			[1] [1]
								[Total: 10]