**CAMBRIDGE INTERNATIONAL EXAMINATIONS** International General Certificate of Secondary Education

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## 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 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.

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	Page 2	Mark Scheme	Syllabus
		IGCSE – October/November 2012	0625
1	Normal correct Angle of incide Pins at least 5 Any one from:	lence at 30° (± 2°) 5 cm apart ::	Syllabus 0625 View xtrapapers.com
	Thickness of lines (answer must refer to pencil lines, not light rays) Difficulty in reading protractor to better than 2° Thickness of pins		ys) [1]
			[Total: 5]
2	(a) θ <sub>R</sub> = 23 °C		[1] [1]
	<b>(b) (i)</b> $\theta_{A} =$	63 and (ii) $\theta_{\rm H}$ = 14 (unit not required) ecf $\theta_{\rm R}$ from 2(	<b>(a)</b> [1]
	(c) (i) $\theta_{\rm B} = \zeta$	36 and (ii) $\theta_{W}$ = 15 (unit not required) ecf $\theta_{R}$ from <b>2</b> (	<b>(a)</b> [1]
	Expect N	alculated 4.5 and 2.4 ecf <b>2(b)</b> and <b>2(c)</b> IO <u>and</u> ratios too different/not close enough (owtte), om <b>2(b)</b> and <b>2(c)</b>	[1] , matching statement ecf wrong [1]
	<ul> <li>(e) Any two from: Room temperature/draughts/humidity/air conditioning (i.e. environmental factor) Initial (water) temperature (cold or hot) Amount of stirring Time interval Magaging for event of water/water level</li> </ul>		
		ume/amount of water/water level ace area/material of beaker	[2]
			[Total: 8]
3	(a) Voltmeter	r symbol and position correct	[1]
	(b) Pointer in	n correct position	[1]
		0.84 A, $I_2$ = 0.33 A, $I_3$ = 0.50 A, all correct no significate at least once and not contradicted	cant figures penalty [1]
	(ii) No m	nark awarded	
		sible comment about experimental inaccuracy difficulty in reading meter/scale or meter has a zero	o error [1]



