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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

0625/51

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.

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[1]

[Total: 10]

Page		ge 2					Syllabus	· Po	1
			IGCS	= October/N	lovember 2011		0625	Pop	
1	(a)	` '	ect <i>d</i> values 5, d <i>y</i> values pre					N. Papa	ambridge
	(c)	scales so	elled, y/cm and uitable, using a correct to near ged, continuou	at least half of est ½ small s	quare				[1] [1] [1] [1]
	(d)	_	method used a from graph co	-	own, using at le all square	ast half line			[1] [1]
	(e)		ation correct w between 0.7 a		l to 2 or 3 signif	icant figure	s (ecf)		[1] [1]
								[To	otal: 10]
2	(a)	$\theta_{\rm m}$ betwee Any two stirring	$\theta_{ m h}$ sensible value $\theta_{ m c}$ and $\theta_{ m h}$ from:	unit °C					[1] [1]
		•	rmometer scal		es				[2]
	(b)	θ_c and θ correct a) _h sensible val verage	ues, $ heta_{ extsf{m}}$ betwe	een $ heta_{ extsf{c}}$ and $ heta_{ extsf{h}}$				[1] [1]
	(c)	justified	nt matches rea by reference f ental accuracy	o readings, t	o include idea	of within (c	or beyond) lii	mits of	[1] [1]
	(d)	heat loss	s to surroundin	gs o.w.t.t.e.					[1]
	(e)	any one lagging to swifter tr	oeakers ansfer of wate	r					[4]

lid on beaker

measure temperature in cylinder

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[2]

[Total: 10]

	Page 3	Mark Scheme: Teachers' version	Syllabus
		IGCSE – October/November 2011	0625
3	unit A at I_{A} and I_{I}	ues to 2 decimal places t least once (and not contradicted) both greater than $I_{\rm B}$ and $I_{\rm C}$ + $I_{\rm C}$) to 1 decimal place	Syllabus 0625
		correct nt matches readings by reference to readings	[1] [1] [1]
		east 1 decimal place and < 2.5(V) ct, 2 or 3 significant figures and unit	[1] [1]
	(d) voltmete	er symbol correct and correctly connected	[1] [Total: 10]
4	all li AB	re: mal at 90° in correct position ines present and neat correct position P₂P₃ distance ≥ 5.0cm	[1] [1] [1] [1]
	(h)–(j) trac M₁R	ee: R ₁ and AC correct	[1]
	<i>r</i> va	e: lues correct to 2° lues correct to 2° in $i = r$ to 4°	[1] [1] [1]
		from: ss of lines ss of mirror	

thickness of protractor o.w.t.t.e. thickness of pins/holes