UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## www.papacambridge.com 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.

Page 2	Mark Scheme: Teachers' version Syllabus	Y
	IGCSE – October/November 2011 0625	
	Mark Scheme: Teachers' version Syllabus   IGCSE – October/November 2011 0625   rect <i>d</i> values 5, 10, 15, 20, 25 0625   nd <i>y</i> values present all less than 45 cm   belled, <i>y</i> /cm and <i>x</i> /cm	ambridge
scales all plots	belled, y/cm and x/cm suitable, using at least half of grid correct to nearest ½ small square ged, continuous, thin best-fit line	[1] [1] [1] [1]
(d) triangle method used and clearly shown, using at least half line readings from graph correct to ½ small square		[1] [1]
	llation correct with unit N and to 2 or 3 significant figures (ecf) between 0.7 and 1.4	[1] [1]
	<b>[To</b> T]	tal: 10]
$\theta_{\rm m}$ betw Any two stirring		[1] [1]
•	for temperature to stabilise ermometer scale at right angles insfer	[2]
	$\theta_{\rm h}$ sensible values, $\theta_{\rm m}$ between $\theta_{\rm c}$ and $\theta_{\rm h}$ average	[1] [1]
	nt matches readings by reference to readings, to include idea of within (or beyond) limits of	[1]
experin	nental accuracy	[1]
(d) heat los	ss to surroundings o.w.t.t.e.	[1]
	beakers	
lid on b		[1]
measur	e temperature in cylinder	tal: 10]

Page 3	Mark Scheme: Teachers' version	Syllabus r
	IGCSE – October/November 2011	0625 23
unit A at $I_{A}$ and $I_{D}$	es to 2 decimal places least once (and not contradicted) both greater than $I_{\rm B}$ and $I_{\rm C}$ $I_{\rm C}$ ) to 1 decimal place	Syllabus 0625 0625 Syllabus 0625 Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Observed Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllabus Syllab
	correct It matches readings by reference to readings	[1] [1] [1]
	ast 1 decimal place and < 2.5(V) , 2 or 3 significant figures and unit	[1] [1]
(d) voltmeter	symbol correct and correctly connected	[1] [Total: 10]
all lir AB o	e: hal at 90° in correct position hes present and neat correct position $P_2P_3$ distance $\geq$ 5.0cm	[1] [1] [1] [1]
(h)–(j) trace M₁R	e: and <b>AC</b> correct	[1]
<i>r</i> val	the second seco	[1] [1] [1]
thickness		[2]
		121