UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## www.papaCambridge.com MARK SCHEME for the October/November 2010 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.

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CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2		Syllabus Syllabus
	IGCSE – October/November 2010	0625 23
• •	ralues in cm and less than 50 cm rrect calculation of 1/ <i>d</i>	Syllabus 0625 (11)
All   We	aph: es labelled and suitable scale plots correct to ½ small square ell judged line (position) in line, single (quality)	[1] [1] [1] [1]
	adient by triangle method using at least ½ candidate's line ear, on graph, how obtained	[1] [1]
<b>``</b>	alue 0.5 cm – 5 cm iven to 2 or 3 significant figures with correct unit	[1] [1]
		[Total: 10]
<b>(a)</b> θ <sub>r</sub> s	sensible value	[1]
<i>t</i> in Cor Tab Tab	ble: s, $\theta$ in °C rrect <i>t</i> values ble 2.1 temperatures decreasing ble 2.2 temperatures increasing idence of temperatures to 1°C	[1] [1] [1] [1] [1]
(e) at le	east 300s and given to nearest 10s or in mins	[1]
	atement matches readings and justified by reference to reading mparison given of changes in temperature and time with number	
san con san san san	y two from: ne starting temperature nstant room temperature/avoid draughts/same place ne time intervals ne thermometer (wtte) ne mass/amount/volume of water ne beaker	
lid a	always used	[2]

Page 3	Mark Scheme: Teachers' version	Syllabus P
	IGCSE – October/November 2010	0625
(a) Ammete	symbol	21
Resistor		164
Correct		19
<b>(b)</b> <i>I</i> <sub>0</sub> 0.1–1.	) (A)	Syllabus 0625 Interest of the second
() 10		[.]
(c) Table:		
$R \text{ in } \Omega, I$	in A	[1]
All I to 2		[1]
	decreasing	[1]
Final I va	$lue = 0.5I_0 (\pm 10\%)$	[1]
(d) Correct	ration of 0.5L above (cof)	[4]
	alculation of $0.5I_0$ shown (ecf) matches results and given to nearest ohm	[1] [1]
Lotiniate		
		[Total: 10]
Trace:		
Normal at 90	0	[1]
	angle of incidence 18°–22°	[1]
Point <b>E</b> label		[1]
	arations $\geq$ 5 cm	[1]
All lines neat	and thin	[1]
	to 1 0%	[4]
(i) $\theta$ correct	to $\pm 2^{\circ}$	[1]
		[4]
(j) Correct (	alculation of difference	[1]
	es present and angles in °	
	once, no contradiction)	[1]
larioaor		[']
(I) Correct	tatement matching results	
	(act or within limits of experimental accuracy, or wtte)	[1]
	referring to specified results	[1]
		[Total: 10]
		100731' 101

Please note that due to a labelling error on the paper, the final five marks were not considered when deciding the grade thresholds.