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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

## 0625 PHYSICS

0625/51

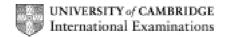
Paper 5 (Practical), maximum raw mark 40

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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

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.



1	(a)	d values in cm and less than 50 cm correct calculation of 1/d	[1] [1]
	(b)	Graph: Axes labelled and suitable scale All plots correct to ½ small square Well judged line (position) Thin line, single (quality)	[1] [1] [1] [1]
	(c)	Gradient by triangle method using at least ½ candidate's line Clear, on graph, how obtained	[1] [1]
	(d)	z value 0.5 cm – 5 cm z given to 2 or 3 significant figures with correct unit	[1] [1] [Total: 10]
2	(a)	$ heta_{\!\scriptscriptstylef}$ sensible value	[1]
		Table: $t$ in s, $\theta$ in °C Correct $t$ values Table 2.1 temperatures decreasing Table 2.2 temperatures increasing Evidence of temperatures to 1°C	[1] [1] [1] [1]
	(e)	at least 300s and given to nearest 10s or in mins	[1]
	(f)	Statement matches readings and justified by reference to readings Comparison given of changes in temperature and time with numbers	[1]
	(g)	Any two from: same starting temperature constant room temperature/avoid draughts/same place same time intervals same thermometer (wtte) same mass/amount/volume of water same beaker	
		lid always used	[2] [Total: 10]
			[10tal. 10]

Mark Scheme: Teachers' version IGCSE – October/November 2010

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Syllabus 0625

<u> </u>	Page 3	wark Scheme: Teachers' version	Syllabus	Paper	
		IGCSE – October/November 2010	0625	51	
3		ter symbol or symbol t circuit		[1] [1] [1]	
	<b>(b)</b> I <sub>0</sub> 0.1–	1.0 (A)		[1]	
				[1] [1] [1]	
		at calculation of $0.5I_0$ shown (ecf) at the matches results and given to nearest ohm		[1] [1] <b>[Total: 10]</b>	
4	Trace: Normal at 90° Correct initial angle of incidence 18°–22° Point <b>E</b> labeled Initial pin separations ≥ 5 cm All lines neat and thin				
	(i) $\theta$ corre	ect to ± 2°		[1]	
	(j) Correc	t calculation of difference		[1]	
		alues present and angles in ° st once, no contradiction)		[1]	
	(either	et statement matching results exact or within limits of experimental accuracy, or wt ed referring to specified results	te)	[1] [1]	
				[Total: 10]	

Mark Scheme: Teachers' version

**Syllabus** 

**Paper** 

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