UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

WANN, 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.

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.

Pa	ige 2	Mark Scheme: Teachers' version	Syllabus Syllabus
		IGCSE – October/November 2010	0625
(a)		in cm and less than 50 cm alculation of 1/ <i>d</i>	Syllabus 0625 0621 [1]
(b)	All plots Well judg	pelled and suitable scale correct to ½ small square ged line (position) e, single (quality)	[1] [1] [1] [1]
(c)		t by triangle method using at least ½ candidate's line n graph, how obtained	[1] [1]
(d)		0.5 cm – 5 cm o 2 or 3 significant figures with correct unit	[1] [1]
			[Total: 10]
(a)	$ heta_{ m r}$ sensib	ble value	[1]
	Table:		
	t in s, θ ir Correct t		[1]
		1 temperatures decreasing	[1] [1]
		2 temperatures increasing	[1]
	Evidence	e of temperatures to 1°C	[1]
(e)	at least 3	300s and given to nearest 10s or in mins	[1]
(f)		nt matches readings and justified by reference to readi ison given of changes in temperature and time with nu	
(g)	Any two		
		arting temperature t room temperature/avoid draughts/same place	
		ne intervals	
	same the	ermometer (wtte)	
	same ma	ass/amount/volume of water	
	lid alway		[2]
			[Total: 10]

Page 3	Mark Scheme: Teachers' version	Syllabus r	
	IGCSE – October/November 2010	0625	
(a) Ammeter	· symbol	Phy	
Resistor		·01	
Correct of	ircuit		
(b) <i>I</i> ₀ 0.1–1.) (A)	Syllabus 0625 (1)	
(c) Table:			
$R \text{ in } \Omega, I$	in A	[1]	
All I to 2		[1]	
	decreasing Ilue = 0.5I ₀ (± 10%)	[1] [1]	
		[']	
	calculation of $0.5I_0$ shown (ecf)	[1]	
Estimate	matches results and given to nearest ohm	[1]	
		[Total: 10]	
-			
Trace: Normal at 90	>	[1]	
	Correct initial angle of incidence 18°–22°		
Point E labele		[1]	
All lines neat	arations \ge 5 cm and thin	[1] [1]	
7 in intes field		[']	
(i) θ correct	to ± 2°	[1]	
(j) Correct of	alculation of difference	[1]	
(k) new valu	es present and angles in °		
	once, no contradiction)	[1]	
	tatement matching results	۲۸۱	
	(act or within limits of experimental accuracy, or wtte) referring to specified results) [1] [1]	
		[Total: 10]	

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