MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0625 PHYSICS

0625/61

Paper 6 (Alternative to Practical), maximum raw mark 40

MMM. Hiremepapers.com

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.



UNIVERSITY of CAMBRIDGE International Examinations

	Page 2				Syllabus	B Paper
			IGCSE –	October/November 2010	0625	61
1	(a)	correct 1 all to 2 si	[1] [1]			
	(b)	graph: axes suit all plots o good line thin line,	[1] [1] [1] [1]			
	(c)	gradient by triangle method using at least $\frac{1}{2}$ candidate's line clear, on graph, how obtained				[1] [1]
	(d)	<i>z</i> value 0.9 – 2.5 2 or 3 significant figures and unit cm given				[1] [1]
						[Total: 10]
2	(a)) θ _r 26			[1]	
	(b)	(i) san	d °C in both ta	ables		[1]
		(ii) at least 300s and given to nearest 10s or in mins				[1]
	(c)	Table 2.2 (heating) justified by two temperature differences compared, must see 14 and 44/56 OR 74 to 60 and 25 to 69/81		nces compared,	[1]	
	 (d) 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 alway				[2]
						[Total: 6]

	Page 3		Mark Scheme: Teachers' version		Syllabus	Paper	
			IGCSE – October/November 2010		0625	61	
3	(a)	0.3 – 0.3	1			[1]	
	(b)	Ω, Α 10.1				[1] [1]	
	(c)	correct c 10(Ω)	alculation of C	$0.5I_{\rm o}$ shown (ecf)		[1] [1]	
	(d)	voltmete	in parallel			[1] [1] [1]	
						[Total 8]	
4	(a)	P₃P₄ G la		ectly and neat prrectly and neat 5cm apart		[1] [1] [1] [1]	
		• •	(v) 40 – 42 2 <i>i</i>) correct	(ecf) (ecf)		[1] [1]	
	(b)	(i) 2 an	d unit (°) pres	ent at least once		[1]	
		refei	(or No, ecf) rence to 'withi close enough o	n limits of experimental accuracy' or wtte)		[1] [1]	
	(c)	no conce	ern about pins	being vertical (or wtte)		[1] [Total: 10]	
5	(a)) any three from: mass/volume/amount of water room temperature temperature of water amount of stirring size/shape of beaker temperature of ice cube number/mass/size of cubes					
	(b)	any three stopclocl balance: thermom measurir	k:	time mass temperature volume (of water)		[3]	
						[Total 6]	