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

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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Page 2		Mark Scheme: Teachers' version Syllabus		Syllabus	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 clear, on	[1] [1]			
(d)	z 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	id °C in both ta	ables		[1]
	(ii) at le	[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			[1]	
(d)	any two same sta constant same tim same the same ma same be				
	lid alway				[2]
					[Total: 6]

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	Page 3		Mark Scheme: Teachers' version		Syllabus	Paper	
	(-)		IGCSE – October/November 2010		0625	61	
3	(a)	0.3 – 0.3	51		[1]		
	(b)	Ω, A 10.1				[1]	
		10.1				[1]	
	(c)	correct c 10(Ω)	alculation of ($0.5I_{\circ}$ shown (ecf)		[1] [1]	
		10(32)				[']	
	(d)	diagram: resistors	in parallel			[1]	
		voltmete	r symbol r position			[1] [1]	
		Volumete	poolion			[Total 8]	
						[
4	(a)	(i) – (iii) EF ∉	extended corro	ectly and neat		[1]	
		P_3P_4		prrectly and neat		[1] [1]	
			nd P ₂ at least	5cm apart		[1]	
			(v) 40 – 42 2 <i>i</i>) correct	(ecf) (ecf)		[1] [1]	
		(0) =====			[.]	
	(b)	(i) 2 an	id unit ([°]) pres	ent at least once		[1]	
			(or No, ecf) rence to 'withi	n limits of experimental accuracy'		[1]	
			close enough			[1]	
	(c)	no conce	ern about pins	being vertical (or wtte)		[1]	
						[Total: 10]	
_							
5	(a)		lume/amount	of water			
		room temperature temperature of water					
		size/sha	of stirring pe of beaker				
		temperature of ice cube number/mass/size of cubes				[3]	
	(b)	any three stopcloc	k:	time			
		balance: thermom	neter:	mass temperature			
		measurir	ng cylinder:	volume (of water)		[3]	
						[Total 6]	

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