MARK SCHEME for the October/November 2009 question paper

for the guidance of teachers

0625 PHYSICS

0625/06

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

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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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UNIVERSITY of CAMBRIDGE International Examinations

	Pa	ge 2	Mark Scheme: Teachers' version IGCSE – October/November 2009	Syllabus 0625	Paper 06				
1	(a)	(i) d 0.5	5 cm or 5mm	0025	00[1]				
•	(u)	(ii) x 10.0							
	(b)	(i)–(iii) table: <i>T</i> 1.0, 0.95, 0.895 (0.90, 0.9), 0.84, 0.775 (0.78)							
		T^2 1	[1] [1]						
	(c)	graph:							
	(0)	axes lab		[1] [1]					
		plots all well judg		[1] [1]					
		thin line,		[1]					
	(d)	stateme	nt NO and not through origin/						
	()	inverse/r	negative gradient/ ses, T^2 decreases/ wtte		[1]				
					[Total: 10]				
2	(a)	91 (°C)			[1]				
	(b)	<i>t</i> in s, bo	th θ in °C		[1]				
	(c)	statemer	nt B and justified by reference to readings		[1]				
	(0)	Statemen		[']					
	(d)	any two							
		constant	arting temperature/temperature of hot water room temperature/keep away from draughts/out of din the intervals	rect sunlight	[2]				
					[Total: 5]				
3	(a)-	- (c) table:							
		V, A, Ω V 1.8			[1] [1]				
		I 0.25	7.20, 3.46(3.5)		[1] [1]				
			nt significant figures for R (2 or more)		[1]				
	(d)	v 0.48 N	.49, 0.5 (ecf)		[1]				
	()		ficant figures and no unit		[1]				

	Page 3			Mark Scheme: Teachers' version	Syllabus	Paper
				IGCSE – October/November 2009	0625	06
	(e)	(i)	corre	ect symbols and circuit (ignore power source symbol)		[1]
		(ii)	voltr	neter position correct		[1]
		(iii)	cont	rol current/voltage/resistance/speed of motor		[1]
						[Total: 10]
4	(a)			<u>-</u> 0.05 (cm) atch number		[1] [1]
	(b)	mor d 6.		[1] [1]		
	(c)			0.05 (cm) ooth with correct unit		[1] [1]
	(d)		-	showing blocks correctly placed wn correctly touching both blocks		[1] [1]
	(e)			13.1 (cm) (or 109 – 131 (mm)) ar out to be explained by experimental inaccuracy (wtte	e)	[1] [1]
						[Total: 10]
5	(a)	lens	s at le	ween object and screen (<u>not</u> mirror) east 2 cm from object and screen le on bench or clamped		[1] [1] [1]
	(b)	use slov avo linir obje repe	vly m id pa ng up ect ar eats	arkened room/brighter object oving lens back and forth to obtain good image rallax, action given object and lens nd lens at same height from bench/object on principal a	ixis	
				ens perpendicular to bench htre of lens position on block		[2]
						[Total: 5]