UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2009 question paper

for the guidance of teachers

0625 PHYSICS

0625/05

Paper 5 (Practical Test), 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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Pa	age 2	Mark Scheme: Teachers' version	Syllabus	Paper		
	•	IGCSE – October/November 2009	0625	05		
1 (a)	(a)–(e)					
	<i>t</i> values <i>T</i> values			[1] [1] [1] [1]		
	plots all well judg	uitable, plots occupying at least half grid correct to ½ square		[1] [1] [1] [1]		
(g)	Stateme	nt NO and not through origin/negative gradient/ <i>x</i> inc	creases, T^2 decreas	ses/wtte [1]		
				[Total: 10]		
2 (a)	i) (i) θ _h 1	00 – 65 (°C)		[1]		
	(iii), (iv),	(b) & (d) (i), (ii)				
	corr posi posi	le: s, θ in °C ect <i>t</i> values 30, 60, 90, 120, 150, 180 tion A temperatures decreasing tion B temperatures decreasing ence of temperatures to 1 °C		[1] [1] [1] [1] [1]		
(c)	θ _h 100–6	65 (°C)		[1]		
(e)	stateme	nt matches readings and justified by reference to rea	adings	[1]		
(f)	constant	from: arting temperature/temperature of hot water room temperature/keep away from draughts/out of ne intervals	direct sunlight	[2] [Total: 10]		

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
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3 (a)–(f)

4

	Table: V, A, Ω first row of table: V to at least 1 dp (1–2.5) and I to at least 2 dp and < 1A second row of table: V and I present, I different from above and not zero correct R value (first row)	[1] [1] [1] [1]			
(g)	<i>y</i> correct ratio (series/parallel) <i>y</i> correct arithmetic 2/3 significant figures and no unit	[1] [1] [1]			
(h)	correct symbols and circuit (ignore power source symbol) voltmeter position correct control current/voltage/resistance/speed of motor	[1] [1] [1] Total: 10]			
(c)	<i>f</i> 14–16 (cm) unit to match number	[1] [1]			
(d)	more than one value shown correct method of finding average shown <i>d</i> value 4–6 cm	[1] [1] [1]			
(e)	sensible <i>t</i> value	[1]			
(f)	correct method of using blocks (more than half lens enclosed) rule shown touching blocks	[1] [1]			
(g)	(i) f value correct (with or without unit)	[1]			
	 (ii) explanation that matches results (expect 'No, too far out to be explained by experimental inaccuracy' (wtte)) [1] 				
	I	Total: 10]			