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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	ge 2	Mark Scheme: Teachers' version	Syllabus	r
			IGCSE – October/November 2009	0625	
1	(a)-	-(e)		al al	Mbr.
		t valı T va	le: ect <i>d</i> values 10, 20, 30, 40, 50 ues present lues correct lues in range 1.4–2.1	Syllabus 0625	[1] [1] [1]
		scale plots well	ph: s labelled es suitable, plots occupying at least half grid s all correct to ½ square judged line line, 5 neat plots		[1] [1] [1] [1]
	(g)	Statement NO and not through origin/negative gradient/ x increases, T^2 decreases/wtte		[1]	
				[Total	: 10]
2	(a)	(i)	θ _h 100 – 65 (°C)		[1]
		(iii),	(iv), (b) & (d) (i), (ii)		
			Table: t in s, θ in °C correct t values 30, 60, 90, 120, 150, 180 position A temperatures decreasing position B temperatures decreasing evidence of temperatures to 1 °C		[1] [1] [1] [1]
	(c)	θ _h 10	00–65 (°C)		[1]
	(e)	state	ement matches readings and justified by reference to	readings	[1]
	(f)	sam	two from: e starting temperature/temperature of hot water stant room temperature/keep away from draughts/out e time intervals	of direct sunlight	[2]

[Total: 10]

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4

(g) (i) f value correct (with or without unit)

(a)–(f)				
	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)	Cannbridge [1] [1]		
(g)	y correct ratio (series/parallel) y 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)	f 14–16 (cm) unit to match number	[1] [1]		
(d)	more than one value shown correct method of finding average shown d 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]		

(ii) explanation that matches results (expect 'No, too far out to be explained by experimental inaccuracy' (wtte)) [1]

[Total: 10]

[1]