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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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	Page 2		Mark Scheme: Teachers' version	Syllabus er	
			IGCSE – October/November 2009	0625	
1	(a)-	-(e) Table:		Syllabus Add er 0625	100
		correct of	values 10, 20, 30, 40, 50		3
		t values T values		[' ['	1 <b>1</b> 11
		T values	in range 1.4–2.1	į́	1]
		Graph: axes lab scales s	elled uitable, plots occupying at least half grid	[:	1] 1]
			correct to ½ square	Ţ	1] 1]
			5 neat plots		1]
	(g)	Stateme	nt NO and not through origin/negative gradient/ <i>x</i> inc	creases, $T^2$ decreases/wtte [	1]
				[Total: 10	)]
2	(a)	(i) θ <sub>h</sub> 1	00 – 65 (°C)	[1	1]
		(iii), (iv)	(b) & (d) (i), (ii)		
		corr pos pos	le: s, θ in °C ect t values 30, 60, 90, 120, 150, 180 tion A temperatures decreasing tion B temperatures decreasing ence of temperatures to 1 °C	[ <i>'</i> [ ['	1] 1] 1] 1]
	(c)	θ <sub>h</sub> 100-	65 (°C)	[	1]
	(e)	stateme	nt matches readings and justified by reference to rea	adings [′	1]

same starting temperature/temperature of hot water constant room temperature/keep away from draughts/out of direct sunlight

(f) any two from:

same time intervals

[Total: 10]

[2]

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## 3 (a)–(f)

Table:  $V, A, \Omega$ 

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)

(g) y correct ratio (series/parallel)y correct arithmetic[1]

2/3 significant figures and no unit [1]

(h) correct symbols and circuit (ignore power source symbol)voltmeter position correct[1]

control current/voltage/resistance/speed of motor

[Total: 10]

**4 (c)** *f* 14–16 (cm) [1] unit to match number

(d) more than one value shown [1] correct method of finding average shown [1]

d value 4–6 cm

(e) sensible t value [1]

(f) correct method of using blocks (more than half lens enclosed) [1] rule shown touching blocks [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]

[Total: 10]