MARK SCHEME for the May/June 2011 question paper

for the guidance of teachers

0625 PHYSICS

0625/52

Paper 5 (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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – May/June 2011	0625	52		
1.	(a) ,	 (a), (b), (c) Correct masses 100, 200, 300, 400, 500 F column complete, all values < 10N and to at least 1d.p. F values increasing 					
	(d)				[1] [1] [1] [1]		
	(e)		F to ½ small square with unit N w obtained		[1] [1]		
	(f)	Weight/n	nass/force of rule owtte		[1] [Total: 10]		
2.	(a)	$ heta_{R}$ sensit	ble value		[1]		
	(c) ·	Correct <i>t</i> Uninsula Insulated	th θ in °C t values 30, 60, 90, 120, 150, 180 ated tube temperatures decreasing d tube temperatures decreasing ate of fall in insulated tube		[1] [1] [1] [1] [1]		
	(f)		nt matches readings by reference to temperature <u>differences</u> and <u>time</u>		[1] [1]		
	(g)	temperat tube size thickness volume/a thickness	from: emperature/ <u>starting</u> temperature/temperature of <u>hor</u> ture/ correct <u>named</u> reference to environmental condi e/same test-tube s of glass amount/level of water s of cotton wool f immersion) of thermometer		ant) room		
		(rate of)			[2]		
					[Total: 10]		

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	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – May/June 2011	0625	52	
3.	(a)	Correct le I values V values R values R consis	m or m, A, V, Ω engths 50cm, 75cm, 100cm all to at least 2 d.p. (<1A) all to at least 1 d.p. (<3V) correct tently to 1 or 2 d.p. R _{AB} to within 10%		[1] [1] [1] [1] [1] [1]	
	(b) Statement matches results Justification refers to results and matches statement, including idea of 'within limits experimental accuracy'					
	(c)		ff between readings w current (owtte)		[1] [Total: 10]	
4.	. Trace: Normal correct All lines present and neat P_3P_4 distance ≥ 5.0 cm EFN = $30^\circ \pm 2^\circ$					
	(h)	a correct	t to 2mm		[1]	
	(j)	b correct	t to 2mm		[1]	
	(k)	<i>n</i> correct <i>n</i> 1.4 – 1	t value, 2 or 3 significant figures, no unit .6		[1] [1]	
		Pin: pins	not vertical/not straight/pins too close/thickness of I	ines/size of holes	s [1]	
		Ray Box	: thickness of ray		[1]	
					[Total: 10]	

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