UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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.

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0625	52
1.	(a),	F column	masses 100, 200, 300, 400, 500 n complete, all values < 10N and to at least 1d.p. s increasing		[1] [1] [1]
	(d)				[1] [1] [1] [1]
	(e)		F to ½ small square with unit N ow obtained		[1] [1]
	(f)	Weight/n	mass/force of rule owtte		[1] [Total: 10]
2.	(a)	$ heta_{R}$ sensit	ble value		[1]
	(c)	Correct to Uninsular Insulated	oth θ in °C to values 30, 60, 90, 120, 150, 180 ated tube temperatures decreasing tube temperatures decreasing trate of fall in insulated tube		[1] [1] [1] [1]
	(f)		ent matches readings by reference to temperature <u>differences</u> and <u>time</u>		[1] [1]
	(g)	temperate tube size thickness volume/a thickness	from: emperature/starting temperature/temperature of hot ture/ correct named reference to environmental condit e/same test-tube s of glass amount/level of water s of cotton wool f immersion) of thermometer		int) room
		(rate of)	•		[2]
					[Total: 10]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper			
			IGCSE – May/June 2011	0625	52			
3.	(a)	(a) mm or cm or m, A, V, Ω Correct lengths 50cm, 75cm, 100cm I values all to at least 2 d.p. (<1A) V values all to at least 1 d.p. (<3V) R values correct R consistently to 1 or 2 d.p. R _{AD} = 2R _{AB} to within 10%						
	 (b) Statement matches results Justification refers to results and matches statement, including idea of 'within limit experimental accuracy' (c) One of: Switch off between readings Use of low current (owtte) 4. Trace: Normal correct All lines present and neat P₃P₄ distance ≥ 5.0cm EFN = 30° ± 2° 							
4.								
	(h)	a correct	t to 2mm		[1]			
	(j)	b correct	t to 2mm		[1]			
	(k)	n correct n 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	lines/size of holes	[1]			
		Ray Box	: thickness of ray		[1]			
					[Total: 10]			