

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 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 2012 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 2012	0625	52
1 ((a)	F values F values	d values 70.0, 60.0, 50.0, 40.0, 30.0, 20.0, 10.0 all less than 4 N decreasing all to at least 0.2 N		[1] [1] [1] [1] [1]
((b)	(i) <i>d</i> ag	ainst F (or F against d)		[1]
			ight line bugh origin		[1] [1]
((c) Would change forcemeter reading/change mass on rule/disturb balance/wtte				[1]
((d)	Line up b	istance from bench is the same at two points/ by eye with windowsill (or suitable horizontal referer use of set-square	nce)/	[1] [Total: 10]
2 ((a)	Sensible	room temperature value in °C		[1]
((b)		imes 0, 30, 60, 90, 120, 150 atures falling		[1] [1]
((c)	Suitable All plots Good line	rrectly labelled scales correct to ½ small square e judgement ntinuous line		[1] [1] [1] [1] [1]
((d)	Draughts	mperature		[2]
					[Total: 10]

	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2012at least 1 d.p. and < 3V and I_1 to at least 2 d.p. and	0625	52
3	(a) V₁ to : <i>R</i> _P an	[1] [1]		
		d I_2 present with $I_2 < I_1$ 4 $R_P \pm 10\%$		[1] [1]
	(c) Corre match	[1]		
	Č Č Č	Circuit: Correct symbols for ammeter, voltmeter and lamp Correct series circuit		[1] [1]
	(ii) V	I_3 and I_3 present with L_S to 2 or 3 significant figures		[1]
	(e) Units	V, A and Ω		[1]
	(f) Filam	ent glows/lamp gets hot		[1]
				[Total: 10]
4	Trace: Normal at Angle of ir All lines pr First emer First P ₃ P ₄	[1] [1] [1] [1] [1]		
	(c) <i>a</i> valu	ue correct to ± 1 mm		[1]
	(i) b valu	ue correct to ± 1 mm		[1]
		ue correct (ecf allowed) or 3 significant figures and no unit		[1] [1]
	(k) <i>a</i> and	b present, both <i>n</i> values 1.4–1.6		[1]
				[Total: 10]