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## **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

0625/53

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	53
1	(a)	Table: cm, N Correct of F values F values F values	[1] [1] [1] [1]		
	(b)	(i) <i>d</i> ag	ainst <i>F</i> (or <i>F</i> against <i>d</i> )		[1]
			ight line ough origin		[1] [1]
	(c)	Would ch	nange forcemeter reading/change mass on rule/dist	urb balance/wtte	[1]
	(d)	Check di Line up t Suitable	[1] [Total: 10]		
2	(a)	Sensible	room temperature value in °C		[1]
	(b)		imes 0, 30, 60, 90, 120, 150 stures falling		[1] [1]
	(c)	Suitable All plots Good line	rectly labelled scales correct to ½ small square e judgement ntinuous line		[1] [1] [1] [1]
	(d)	Draughts	mperature		[2]
					[Total: 10]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2012	0625	53
3	(a) V R	A	[1] [1]		
	(b) V	[1] [1]			
	(c) C	accuracy)	[1]		
	(d) (i	Corr	uit: rect symbols for ammeter, voltmeter and lamp rect series circuit		[1] [1]
	(ii	i) V₃ aı	and $I_3$ present with $L_S$ to 2 or 3 significant figures		[1]
	(e) U	Jnits V, <i>i</i>	A and $\Omega$		[1]
	( <b>f</b> ) F	ilament	glows/lamp gets hot		[1]
					[Total: 10]
4	Trace Norma Angle All line First 6		[1] [1] [1] [1]		
	(c) a	value c	correct to ± 1 mm		[1]
	(i) b	value o	correct to ± 1 mm		[1]
			correct (ecf allowed) significant figures and no unit		[1] [1]
	( <b>k</b> ) a	and b p	present, both <i>n</i> values 1.4–1.6		[1]
					[Total: 10]