CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2013 series

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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Ра	ge 2	Mark Scheme	Syllabus	
		IGCSE – May/June 2013	0625	2
(a)		recorded in consistent units alculation of <i>m</i> and no unit	Syllabus 0625	ambridge
(b)	h_0 and h_1 within 10	recorded and <i>M</i> calculated % of <i>m</i>		[1] [1]
(c)	justificati	nt matching results (expect 'Yes', Yes if < 10%, No in on matching statement	,	[1]
		within the range of experimental accuracy' o.w.t.t.e. pect 'outside range of experimental accuracy' o.w.t.		[1]
(d)	inverted edges bl	triangle urred / hand in way of light		[1] [1]
(e)	darkened mark post object ar ruler fixe all appar move sci	able precautions, e.g. d room / brighter lamp / lights not interfering sition of lens on holder and lens same height above bench d to bench atus vertical / right angles to bench reen back and forth (for sharp image) (to obtain average)	[To	[2] otal: 10]
(a)	θ near both θ near su	rect (symbols or words) ottom of beaker decreasing urface decreasing urface – smaller/same change in 6 min compared to	heta near bottom	[1] [1] [1]
(b)	specific r	nificant difference', need mention of 'within limits of		h [1] [1]
(c)	e.g. stir b	ate precaution: pefore reading / keep thermometer at same depth g explanation: ure temperature is the same throughout / temperatu	re different at different de _l	[1] oths [1]

1

2

Page 3		3	Mark Scheme	Syllabus	r
			IGCSE – May/June 2013	0625	
	a sa sa sa	ny two ame siz ame vo ame ini ame roo	ate precautions relating to comparison		[2]
3	(a)	corre	ect symbol for voltmeter		[1]
	(b-d)		<3.0 V <u>and</u> to at least 1 d.p. ent <1.00 A <u>and</u> to at least 2 d.p.		[1] [1]
	(e)		alculations correct sistent 2/3 sig. figs. in <i>R</i> column		[1] [1]
	(f)	units	s all correct (symbols or words)		[1]
	(g)	quot	ement matches results (expect 'No', No if > 10%, Yes ted appropriately ching statement (need to see too different o.w.t.t.e.)	if < 10%) <u>and</u> <i>R</i> figures	[1] [1]
	(h)	yes,	as lamps are at different <u>brightness</u> (o.w.t.t.e.)		[1]
	(i)	corre	ect parallel connection	[To	[1] tal: 10]
4	` '		of <i>h</i> < 60 cm of <i>t</i> , decreasing with increasing <i>h</i>		[1] [1]
	(b) C	orrect c	calculations of T and T^2		[1]
	`´a p	lots cor	elled ate scales (plots occupying at least half grid) rect (to ½ square) ged line, fine plots, thin neat line		[1] [1] [1] [1]
			method seen on graph angle (at least ½ line)		[1] [1]

Page 4	Mark Scheme	Syllabus	V
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(e) appropriate precaution

e.g. take reading with eye line perpendicular to scale / use set square to ensure rule vertical

NOT just 'parallax' unless explained

[Total: 10]