## MARK SCHEME for the May/June 2010 question paper

## for the guidance of teachers

## 0625 PHYSICS

0625/51

Paper 51 (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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0625	51
1	(a)	<i>l</i> value g	20 – 100 mm reater than $l_A$ and correct calculation of $e_A$ itable marks (must indicate a reproducible length)		[1] [1] [1]
	(b)	$l_{\rm B}$ value 20 – 100 mm $l$ and $e_{\rm B}$ recorded			[1] [1]
	(c)		f <i>l</i> recorded and correct <i>e</i> values ct <u>method</u>		[1] [1]
	(d)		nt matches readings ion matches statement and by reference to results		[1] [1]
	(e)	use of ho	of: ce of parallax error explained prizontal aid ng to same point each time		
		•	springs to stop moving		[1] [Total: 10]
2	(a)		tures decreasing e of temperatures to 1°C		[1] [1]
	(b)	$T_1$ correct $T_2$ correct unit °C			[1] [1] [1]
	(c)		cupying at least half of grid correct to ½ square		[1] [1] [1] [1] [1]
					[Total: 10]

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	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
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3	(a)	a) correct symbol correct position			[1] [1]
	(b)	V values	values all < 2.5 V and to at least 1 d.p. decreasing is correct		[1] [1] [1] [1] [1]
	(c)	justificati	nt matches readings (Expect NO) on matches statement and by reference to results not constant, <i>V</i> increases as <i>l</i> decreases or wtte.		[1] [1]
	(d)	avoidanc	of: r zero error ce of parallax error when reading <i>l</i> f between readings		
					[Total: 10]
4	ray trace: all lines present, thin, neat and in correct areas normal drawn GJ at 30° to normal (by eye) second mirror position 10° from first P <sub>1</sub> P <sub>2</sub> distance at least 5 cm				[1] [1] [1] [1] [1]
	(i)	$r_1$ correct	t to ± 2°		[1]
	(n)	$r_2$ correct $\alpha$ and (2)	t to $\pm 2^{\circ}$ $\theta - \alpha$ ) correct (ignore – sign)		[1] [1]
	(o)		nt matches result (Expect YES) on matches statement and by reference to result		[1] [1]
					[Total: 10]

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