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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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	· 20 V
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·			S

1 (a) l_A value 20 – 100 mm l_A value greater than l_A and correct calculation of e_A clear, suitable marks (must indicate a reproducible length)

(b)	<i>l</i> _B value 20 − 100 mm	[1]
	l and $e_{\rm B}$ recorded	[1]

(c)	values of <i>l</i> recorded and correct e values	[1]
	e _{av} correct method	[1]

(d) statement matches readings	[1]
iustification matches statement and by reference to results	[1]

(e) any one of:
 avoidance of parallax error explained
 use of horizontal aid
 measuring to same point each time
 repeats
 wait for springs to stop moving

[Total: 10]

- 2 (a) temperatures decreasing [1] evidence of temperatures to 1°C [1]
 - (b) T_1 correct [1] T_2 correct [1]
 - unit °C [1]
 - (c) graph:
 y-axis labelled
 plots occupying at least half of grid
 all plots correct to ½ square
 well judged line
 thin line

 [1]

[Total: 10]

[1]

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[Total: 10]

	Page 3		Mark Scheme: Teachers' version	Syllabus
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3	(a) correct symbol correct position			Syllabus 4. Add r 0625 RANDARD
	(b)	V values	s all < 2.5 V and to at least 1 d.p. s decreasing es correct	[1] [1] [1] [1] [1]
	(c)	justificati	nt matches readings (Expect NO) ion matches statement and by reference to results not constant, <i>V</i> increases as <i>l</i> decreases or wtte.	[1] [1]
	(d)	avoidand	of: or zero error ce of parallax error when reading <i>l</i> ff between readings	
				[Total: 10]
4	all I nor GJ sec	mal drawn at 30° to note to the second mirror	ent, thin, neat and in correct areas n normal (by eye) or position 10° from first e at least 5 cm	[1] [1] [1] [1]
	(i)	r ₁ correc	et to ± 2°	[1]
	(n)	r_2 correc α and (2	et to $\pm 2^{\circ}$ $(2\theta - \alpha)$ correct (ignore – sign)	[1] [1]
	(o)		nt matches result (Expect YES) ion matches statement and by reference to result	[1] [1]