## 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

0625/61 Paper 6 (Alternative to 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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	Pa	ge 2	Mark Sc	heme: Teachers	s' version	Syllabus	Paper
				SE – May/June		0625	61
1	(a)	• • •	29 (mm) and $l$ = 3 = 14 (mm) and $e_{ m B}$	. , .	9 <u>cm</u> , 3.1 <u>cm</u> ) (ignore minus sig	jns)	[1] [1]
	(b)	(i) both	l correct to (21.8)	5 – 22) and 24			[1]
		<b>(ii)</b> (6.5	– 7) and 8 (ecf)	(ignore minus s	igns)		[1]
		(iii) <i>e</i> <sub>av</sub> =	= 7.5 (c.a.o.)				[1]
	(c)	justificat	nt matches readi ion matches state within limits of ex	ement and by ref	erence to results	(too dit	(ecf NO) [1]
	(d)	any one		penmentai accur	acy, wile)	( <u>100</u> un	ferent, wtte) [1]
	(u)	avoidan use of h	ce of parallax erro orizontal aid				
		repeats	ng to same point				
		wait for s	springs to stop m	oving			[1]
							[Total: 8]
2	(a)	(i) T <sub>1</sub> c	correct 18				[1]
		(ii) T <sub>2</sub> c unit		tion and not conti	radicted)		[1] [1]
	(b)	graph: <i>y</i> -axis la	belled				[1]
		•	cupying at least h correct to ½ squa	-	able scale		[1] [1]
		well judg thin line	ged single, smoot	h curve line, not	'point-to-point'		[1] [1]
	(c)	(i) T <sub>2</sub> <	< <i>T</i> <sub>1</sub> (wtte)				[1]
		(ii) dec	reasing gradient	(wtte)			[1]
							[Total: 10]

Pa	ge 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2010	0625	61
(a)	correct s correct p			['
(b)		es correct 8.35, 3.58, 2.08, 1.39, 1.00 nt 2 or 3 significant figures		[ [ [
(c)	justificatio	It matches readings (expect NO) on matches statement and by reference to results constant, as $l$ increases $V$ decreases		[ [
(d)	avoidanc	of: <sup>-</sup> zero error e of parallax error explained f between readings		[
				[Total:
(a)	(i) pins	at least 5 cm apart		[
	(ii) <i>i</i> = 3	0		[
	(iii) <i>r</i> <sub>1</sub> = 3	31		[
(b)	(i) & (ii) b	ooth lines correct area		[
		$r_2$ correct to <u>+</u> 1° with unit difference = 1 or -1 (c.a.o.)		[ [
(c)		it matches result (expect YES)		(ecf NO) [
	านธนาเปล่นไ	on matches statement and by reference to result		

[Total: 8]

Paper	Syllabus	Page 4
61	0625	
[1 [1		(a) colu colu
[1		colu
[1]	on time	(b) acc
[1]	es) c.a.o	(c) (i)
		(::)
	sult changing, wtte)	(ii)
[1	······	
[Total: 6]		