## MARK SCHEME for the October/November 2010 question paper

## for the guidance of teachers

## 0625 PHYSICS

0625/63

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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	Page 2			Mark Scheme: Teachers' version	Syllabus	Paper		
				IGCSE – October/November 2010	0625	63		
1	(a)	all p wel	blots o I judg	tes labelled and scales suitable correct to nearest ½ small square ed best fit line fit single line/no 'blobs'		[1] [2] [1] [1]		
	(b)	stat just (ex		[1] [1]				
	(c)	tria clea <i>m</i> c 1.3		[1] [1] [1] [Total: 10]				
2	(a)	θ <sub>r</sub> =	27			[1]		
	(b)	(i)	t in s	$\theta$ in <sup>o</sup> C in both tables		[1]		
		(ii)		ement correct (about the same) ied – within limits – numbers similar, etc.		[1] [1]		
	(c)	san con cari san san	istant ry out ne the ne ma	rom: irting temperature room temperature/avoid draughts at same time/place/time interval ermometer (wtte) ass/volume/amount of water be of beaker		[2]		
						[Total: 6]		
3	(a)	(i)		neter symbol ect position		[1] [1]		
		(ii)	varia	ble resistor/rheostat		[1]		
	(b)	) 2.2 marked						
	(c)	(i)		ect values 6.11, 6.03, 6.12, 6.17, 6.09 istent 2 or 3 significant figures		[1] [1]		
		(ii)	V, A	, Ω		[1]		
		(iii)		ement matches results (expect YES) anation matches statement (expect same within lim	ts of experimenta	[1] Il accuracy) [1]		
	[Tot							

	Page 3			Mark Scheme: Teachers' version Syllabus			Paper	
			IGCSE	- October/Nove	nber 2010	0625	63	
4	(a)	<i>a</i> correct 9.9 – 10cm						
	(b)	<i>y</i> correct (3 × <i>a</i> ) 30cm allow ecf from <b>(a)</b>						
	(c)	at least two readings recorded <i>d</i> = 2.8cm						
	(d)			84, 5.76, 6.76, 7.8 of significant figur			[1] [1]	
		(ii) sta	[1]					
		justification matches statement (expect within limits of experimental accura						
		or	'close enough', c	or wtte)			[1]	
	(e)	any two of: use of darkened room how to avoid parallax when measuring distances use of marks paper on screen to aid measurements repeat (and average) screen/object card perpendicular to bench						
5	(a)	<ul> <li>(a) three from: length/diameter/number of coils of spring – any two for 1 mark each mass of spring selection of loads</li> </ul>						
		(NOT room temperature)					[3]	
	(b)	<i>l</i> o show	n and <i>l</i> shown (c	consistent with $l_{o}$ )			[1]	
	(c)	use of	fiducial aid				[1]	
							[Total: 5]	