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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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	2	Mark Scheme: Teachers' version Syllabus	ľ	
			IGCSE – October/November 2010 0625		
1	Page 2 Mark Scheme: Teachers' version IGCSE – October/November 2010 0625 (a) graph: axes labelled and scales suitable all plots correct to nearest ½ small square well judged best fit line thin best fit single line/no 'blobs'				
	jus	tificatio	t matches line (expect YES) on matches statement traight line through origin)	[1] [1]	
	cle m	ar how	nethod with more than half the line used of obtained – shown on graph in kg, 2 or 3 significant figures 15 kg - unit penalty	[1] [1] [1]	
			•		
2	(a) $\theta_r =$	= 27		[1]	
	(b) (i)	t in s	, θ in °C in both tables	[1]	
	(ii)		ment correct (about the same) led – within limits – numbers similar, etc.	[1] [1]	
	cor car	me star nstant r rry out	rom: rting temperature room temperature/avoid draughts at same time/place/time interval rmometer (wtte)		
		ss/volume/amount of water e of beaker	[2]		
			[То	otal: 6]	
3	(a) (i)		neter symbol oct position	[1] [1]	
	(ii)	varia	ble resistor/rheostat	[1]	
	(b) 2.2	? marke	ed	[1]	
	(c) (i)		ct 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)		ment matches results (expect YES) anation matches statement (expect same within limits of experimental accurac	[1] y) [1]	

[Total: 9]

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[1]

[Total: 5]

	Page 3			Mark Scheme: Teachers' version				Sy	llabus	0	r			
								mber 2010		_	625		Day	
4	(a)	a co	rrect	t 9.9 – 1	0cm								1	ambridge
	(b)	y co	rrect	t (3 × a) 3	0cm a	llow ecf	from (a)						Se.
	(c)	at least two readings recorded d = 2.8cm								[1] [1]				
	(d)	` '		alues corre sistent nur				34, 9.61 es (2 or 3)	1					[1] [1]
		(ii)	state	ement ma	ching re	esults (e	xpect Y	ES)						[1]
		justification matches statement (expect within limits of experimental accuracy or 'close enough', or wtte)						curacy	/ ,	[1]				
	(e)	how use repe	of da to a of m eat (a	arkened ro void paral	lax whe r on scr ge)	een to a	aid mea	surements	3				[То	[2] tal: 10]
5	(a)	mas sele	th/dias of a	iameter/nu spring n of loads		f coils of	f spring	– any two	for 1 ma	ırk eacl	า			
		(NO	T roo	om tempe	rature)									[3]
	(b)	l₀ sh	iown	and <i>l</i> sho	wn (cor	sistent v	with $l_{\rm o}$)							[1]

(c) use of fiducial aid