

Wany, Papa Cambridge, com MARK SCHEME for the October/November 2009 question paper

for the guidance of teachers

0625 PHYSICS

0625/06

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 Syllabus
	IGCSE – October/November 2009	0625 23
(a) (i) d0.8	5 cm or 5mm	ant
(ii) x 10	.0	Syllabus 0625 Brown the er 0625
	e: <i>T</i> 1.0, 0.95, 0.895 (0.90, 0.9), 0.84, 0.775 (0.78) .00, 0.903, 0.801, 0.706, 0.601 (if <i>T</i> correct)	[[
plots all o well judg	uitable, plots occupying at least half grid correct to $\frac{1}{2}$ square	[[[['
inverse/r	nt NO and not through origin/ negative gradient/	
x increas	ses, T^2 decreases/ wtte	[
		[Total: 10
(a) 91 (°C)		['
(b) <i>t</i> in s, bo	th θ in °C	[
(c) statemer	nt B and justified by reference to readings	[
	arting temperature/temperature of hot water	
	room temperature/keep away from draughts/out of d ne intervals	irect sunlight [2
		[Total: {
(a)–(c) table:		
V, A, Ω V 1.8		[, [,
I 0.25 R values	7.20, 3.46(3.5)	- - - - - -
	It significant figures for R (2 or more)	[[[

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	Ра	ge 3	Mark Scheme: Teachers' version IGCSE – October/November 2009	Syllabus 0625 Bacannbridge
	(e)	(i) corre	ect symbols and circuit (ignore power source symbol)	Cant
		(ii) voltr	meter position correct	stide.
		(iii) cont	trol current/voltage/resistance/speed of motor	[1] ·Com
				[Total: 10]
4	(a)		<u>-</u> 0.05 (cm) natch number	[1] [1]
	(b)	more tha <i>d</i> 6.5 <u>+</u> 0	an one value shown).1	[1] [1]
	(c)		0.05 (cm) both with correct unit	[1] [1]
	(d)	-	showing blocks correctly placed wn correctly touching both blocks	[1] [1]
	(e)		13.1 (cm) (or 109 – 131 (mm)) ar out to be explained by experimental inaccuracy (wtte)	[1] [1]
				[Total: 10]
5	(a)	lens at le	ween object and screen (<u>not</u> mirror) east 2 cm from object and screen le on bench or clamped	[1] [1] [1]
	(b)	slowly m avoid par lining up object an repeats	from: arkened room/brighter object noving lens back and forth to obtain good image irallax, action given object and lens nd lens at same height from bench/object on principal ax ens perpendicular to bench	is
			ntre of lens position on block	[2]
				[Total: 5]