UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2009 question paper for the guidance of teachers

0625 PHYSICS

0625/06

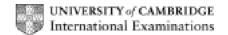
Paper 6 (Alternative to Practical), maximum raw mark 40

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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



		J-	_	IGCSE – October/November 2009	0625	06
1	(a)	(i)	d 0.	5 cm or 5mm		[1]
		(ii)	<i>x</i> 10	0.0		[1]
	(b)	(i)-		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)		[1] [1]
	(c)	sca plo we	es lab ales s ts all Il judg	pelled uitable, plots occupying at least half grid correct to ½ square ged line , 5 neat plots		[1] [1] [1] [1]
	(d)	inv	erse/ı	nt NO and not through origin/ negative gradient/ ses, T^2 decreases/ wtte		[1] [Total: 10]
2	(a)	91	(°C)			[1]
	(b)	<i>t</i> in	s, bo	oth θ in °C		[1]
	(c)	sta	teme	nt B and justified by reference to readings		[1]
	(d)	sar	ne stant	from: arting temperature/temperature of hot water t room temperature/keep away from draughts/out of dire ne intervals	ect sunlight	[2] [Total: 5]
•		, ,				[Total. o]
3	(a)-	V 1 I 0. R v	A, Ω I.8 .25 /alues	s 7.20, 3.46(3.5) nt significant figures for <i>R</i> (2 or more)		[1] [1] [1] [1]
	(d)			0.49, 0.5 (ecf) ificant figures and no unit		[1] [1]

Mark Scheme: Teachers' version

Syllabus

Paper

Page 2

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2009	0625	06
	(e)	(i) c	orrect symbols and circuit (ignore power source symbol)		[1]
		(ii) vo	oltmeter position correct		[1]
	((iii) c	ontrol current/voltage/resistance/speed of motor		[1]
					[Total: 10]
4	(a)		5 <u>+</u> 0.05 (cm) match number		[1] [1]
	(b)	more d 6.5	than one value shown <u>+</u> 0.1		[1] [1]
	(c)		± 0.05 (cm) t both with correct unit		[1] [1]
	(d)		am showing blocks correctly placed nown correctly touching both blocks		[1] [1]
	(e)		 – 13.1 (cm) (or 109 – 131 (mm)) o far out to be explained by experimental inaccuracy (wtte) 		[1] [1]
					[Total: 10]
5	(a)	lens a	etween object and screen (<u>not</u> mirror) t least 2 cm from object and screen rule on bench or clamped		[1] [1] [1]
	(b)	use of slowly avoid lining object repea		S	
			n/lens perpendicular to bench centre of lens position on block		[2]
					[Total: 5]