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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2006 question paper

0625 PHYSICS

0625/05

Paper 5 (Practical), maximum raw mark 40

This mark scheme is published as an aid to teachers and students, 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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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

CIE is publishing the mark schemes for the October/November 2006 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



		10002 - 001/1104 2000	0020	00
4	(-)	main a consible value (40 FO)		[4]
1	(a)	m in g, sensible value (10 – 50)		[1]
	(b)	<i>I</i> in cm, sensible value (6 – 10) At least 3 measurements taken		[1] [1]
	(c)	Average calculated (method)		[1]
	(d)	At least 30 cm of string used c value sensible in cm (8 – 13 cm)		[1] [1]
	(e)	correct V (ignore unit, ecf)		[1]
	(f)	$V_{\rm r}$ less than V by up to 10% and whole number		[1]
	(g)	correct <i>d</i> (ecf) 1/2/3 significant figures		[1] [1]
				[Total: 10]
2	(a) – (d)	Table:		
		5 sets of <i>t</i> and <i>T</i> values Correct <i>T</i>		[1] [1]
		Consistent 3 or consistent 4 significant figures for T		[1]
	(e)	Graph: Sensible T scale, labelled, plots covering more than $\frac{1}{2}$ grid		[1]
		Plots to ½ square Well judged line		[1] [1]
		Line thin		[1]
	4.00	All plots to within ± 0.05s on line		[1]
	(f)	statement NO and Reason not straight line through origin OR it is a curve		[1]
	(g)	one of: Repeats		
		More swings		
		More <i>d</i> values/larger range Small/constant amplitude		[1]
				[Total: 10]
3	` ' ` '	Trace:		[4]
	(k) – (p)	Neat and complete Normal at 90° (by eye)		[1] [1]
		GJ at $30^{\circ} (\pm 2^{\circ})$ AG = 11.4cm – 11.6 cm		[1] [1]
		P ₃ P ₄ distance ≥ 5 cm		[1]
	(j)	candidate's r_1 correct to $\pm 2^\circ$		[1]
	(q)	candidate's r_2 correct to $\pm 2^\circ$ R values $28^\circ - 32^\circ$ and $47^\circ - 51^\circ$ (ignore unit)		[1] [1]
	(r)	bases		[1]
		Pins may not be vertical (or words to that effect)		[1]
				[Total: 10]

Mark Scheme

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Syllabus

0625

Page 3		Mark Scheme	Syllabus	Paper
		IGCSE - OCT/NOV 2006	0625	05
4 (b) – (c)		le complete, temperatures decreasing mperatures to nearest 1°C		[1] [1]
(d)		nsible V (150 – 250) (or ml)		[1] [1]
(e)	sec	cond table complete, temperatures decreasing		[1]
(f)		rect conclusion (see readings) stification quoting temperature difference		[1] [1]
(g)	Thr Vol Initi Roo Sar Pos Dra	riables: ree from: lume of water ial temperature om temperature me beaker for each experiment sition of thermometer aughts/sunlight midity		[3]