MARK SCHEME for the May/June 2007 question paper

0625 PHYSICS

0625/05

Paper 5 (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.

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.

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

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2		Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2007	0625	5
1	(b)	$ heta_1$ sens	sible room temp		[1]
	(d)	$ heta_2$ suital	ble hot water temp down to 60°C		[1]
	(f)	$ heta_3$ (grea	ater than θ_1 and less than θ_2)		[1]
	(g)	$ heta_2$ (a litt	le less than or equal to θ_2 in (d))		[1]
	(i)	$ heta_3$ less	than θ_2 in (g) and greater than θ_3 in (f)		[1]
	(b)		emperatures in °C, correctly written dence of temperatures to 1°C		[1] [1]
	(j)	(i) hea	at loss to surroundings		[1]
		insu lid spe rep	v two from: ulation / mat eedier transfer eats t to record maximum temperature ring		
			ude beaker in calculation		[2]
					[Total: 10]
2	(a)	(a) record of h_0 , sensible (25 – 100cm) with correct unit			[1]
	(c)	evic	ets of <i>d</i> and <i>h</i> dence of <i>h</i> to nearest mm rect arithmetic for <i>b</i>		[1] [1] [1]
	(i)	plots to	axis labelled with symbol / unit nearest ½ sq (-1 each error or omission) n and best fit		[1] [2] [1]
	(j)	OR neg	traight line) through origin (ecf) ative gradient		
		OR as <i>k</i>	o increases, <i>d</i> decreases		[1]
	(k)	use of s	et square / protractor / spirit level / plumbline		[1]
					[Total: 10]

	Page 3	Mark Scheme	Syllabus	Paper
		IGCSE – May/June 2007	0625	5
3	(b) – (f) table sens both both corre first both		[1] [1] [1] [1] [1] [1]	
	(g) all correc	ct units: <i>V</i> , <i>A</i> , Ω (symbol or word)		[1]
	(h) fourth bo	x		[1]
	(i) second <i>I</i>	R $\frac{1}{4}$ of first (or similar wording)		[1]
				[Total: 10]
4	all x all x corre	e complete with <i>x</i> , <i>y</i> and <i>f</i> values , <i>y</i> and <i>f</i> given to nearest mm , <i>y</i> and <i>f</i> in m ect arithmetic for <i>f</i> ues 140 – 160 mm		[1] [1] [1] [1] [1]
		iverage f f to 2/3 sf init for average f (m, cm, mm)		[1] [1] [1]
	metre ru object ar mark on lens perp choosing lens/scre			[2] [Total: 10]