UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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.

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	Page 2	Mark Scheme	Syllabus
		IGCSE – May/June 2007	0625
1	(b) θ_1 sensi	ble room temp	Syllabus Canabata er 0625
	(d) θ_2 suitab	ele hot water temp down to 60°C	To the
	(f) θ_3 (great	ter than $ heta_1$ and less than $ heta_2$)	[1]
	(g) θ_2 (a little	e less than or equal to θ_2 in (d))	[1]
	(i) θ_3 less t	han $ heta_2$ in (g) and greater than $ heta_3$ in (f)	[1]
		emperatures in °C, correctly written ence of temperatures to 1°C	[1] [1]
	(j) (i) heat	t loss to surroundings	[1]
	insu lid spee repe wait	to record maximum temperature	
	stirri inclu	ing ude beaker in calculation	[2]
			[Total: 10]
2	(a) record o	f h_0 , sensible (25 – 100cm) with correct unit	[1]
		ets of <i>d</i> and <i>h</i> ence of <i>h</i> to nearest mm ect arithmetic for <i>b</i>	[1] [1] [1]

(i) Graph:

correct axis labelled with symbol / unit [1] [2] plots to nearest ½ sq (-1 each error or omission)

[1] line, thin and best fit

(j) no not (a straight line) through origin (ecf) OR negative gradient

OR as b increases, d decreases [1]

(k) use of set square / protractor / spirit level / plumbline [1]

[Total: 10]

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Page 3		Mark Scheme	Syllabus
		IGCSE – May/June 2007	0625
3	ser bot bot cor firs	ble complete with V , I and R values nsible values for V (1 – 4) and I (0.1 – 1.0) th V to at least 1 dp th I to at least 2 dp rrect arithmetic for R values at R value between 3 and 5 x second value th R to 2 sf or both to 3 sf	Syllabus 0625 O625 Recommendation of the comment
	(g) all corre	ect units: V , A , Ω (symbol or word)	[1]
	(h) fourth b	оох	[1]
	(i) second	$R \frac{1}{4}$ of first (or similar wording)	[1] [Total: 10]
4	all all cor	ole complete with x , y and f values x , y and f given to nearest mm x , y and f in m rrect arithmetic for f alues 140 – 160 mm	[1] [1] [1] [1] [1]
		average f e f to $2/3$ sf unit for average f (m, cm, mm)	[1] [1] [1]
	metre ri object a		

lens perpendicular to light rays

choosing mid-point between acceptable positions lens/screen perpendicular to bench

avoidance of parallax error, if action and reason given

[Total: 10]

[2]