MARK SCHEME for the May/June 2008 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.

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	Page 2		Mark Scheme	Syllabus	Paper		
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1	(b) clear explanation/diagram						
	(d)	a + b = 3 b > a both in n	38 – 42 cm n, cm or mm, with unit		[1] [1] [1]		
	(e)	W correc	ct calculation (ecf)		[1]		
	(f)	new a ar a + b = 2 two <i>W</i> va	nd <i>b</i> values, both less than 50 cm 28 – 32 (cm) alues same to within 10%		[1] [1] [1]		
	(g)	correct n 2/3 signi	nethod ficant figures and unit N		[1] [1]		
					[Total: 10]		
2	Table: Units V, A, Ω (symbol/word) All V to at least 1 dp, less than 3 V All I to at least 2 dp, less than 1 A R values correct (ecf) Consistent 2 or consistent 3 sig fig for R Circuit 1 I value greatest Circuit 3 I value < circuit 2 I value				[1] [1] [1] [1] [1] [1]		
	(b)	(i) Yes One	(if within 10%) No (if not) ninth value calculated and compared		[M1] [A1]		
		(ii) temı Lam	perature change/zero error in meter/ ps unlikely to have same resistance		[1] [Total: 10]		
3	 (a) Table: container A complete temp records descending container B complete temp records descending temps to nearest 1 °C or better 						
	 (b) Graph: Temperature axis labelled θ/°C Suitable scale (plots occupy at least ½ grid) Plots correct to nearest ½ square Lines well judged curves Lines thin 						

Page 3		Mark Scheme	Syllabus	Paper
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(c) Sta larg no Jus Co	atemer rger su signifi stificati prrect re	nt: rface area increases rate of cooling/ cant effect (depending on readings) ion: eference to gradients of lines		1 1 [Total: 10]
 Trace: all lines normal EF at 3 P₃P₄ dia KJ at le 	s prese I drawn 30° to r istance east 5 d	ent, thin, neat and in correct areas normal (by eye) es at least 5 cm cm		[1] [1] [1] [1] [1]
(h) a c	correct	to 2mm		[1]
(j) bo	correct	to 2mm		[1]
(I) ca aa	and <i>d</i> re and <i>b</i> b	ecorded, ooth in mm, cm or m with unit		[1]
(m) cor 2/3	rrect ca 3 signif	alculation of <i>n</i> , value 1.3–1.7 icant figures with no unit		[1] [1]
				[Total: 10]