MARK SCHEME for the October/November 2008 question paper

0625 PHYSICS

0625/05

Paper 5 (Practical Test), maximum raw mark 40

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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	Paper			
		IGCSE – October/November 2008	0625	5			
1	(a) (i) & (i	i) h_0 value h_1 value < h_0 value		[1] [1]			
	 (iii) correct e1 value all above in correct unit (m, cm, mm) stated at least once 						
	(b) (i) & (i	 i) h₂ value, <h<sub>0 and > h₁</h<sub> e₂ value correct 		[1] [1]			
		<i>r</i> calculation correct nificant figures, value 6–10 g/cm ³		[1] [1]			
	(d) e_2 grea ρ grea	ater ter (or identical to e_2 answer)		[1] [1]			
				[Total: 10]			
2	Diagram: correct symbols for ammeter and voltmeter correct symbols for resistor correct circuit arrangement						
	Table: units V, A (symbol/word) All V to at least 1 d.p., < 1.5 V All I to at least 2 d.p., \leq 1 A Circuit 3 V < circuit 1 and 2 values						
	Ju	atement: Yes (if within 10%) No (if not) stification: must match statement (e.g. close enoug at effect)	h/too different or	[1] words to [1]			
		esistance at connections/temperature change/ ernal resistance of source/other sensible suggestion		[1]			
	[Total: 10						

	Page 3		Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2008	0625	5	
3	(a)	record of	$\theta_{ ho}$ (sensible value)		[1]	
			/ in cm ³ readings with correct <i>V</i> 0, 20, 40, 60, 80, 100 ecreasing		[1] [1] [1]	
		Graph: axes labelled axes suitable (e.g. not '3' scale) and plots occupy more than ½ grid all plots correct (better than ½ sq) well judged, thin best fit line				
	(d)	 1. sensible comment about heat loss to the surroundings, e.g. use of insulation/lid 2. sensible comment about adding water in a regulated, timed flow 				
					[Total: 10]	
4	(a)	<i>y</i> value 2	25—53 cm		[1]	
	(b)		alculation of <i>f</i> nit for <i>y</i> and <i>f</i>		[1] [1]	
	(c)	<i>y</i> value 2	20–40 (cm) and <i>f</i> present		[1]	
	(d)	correct n average	nethod f 13–17 (cm)		[1] [1]	
	(e)	d 13–17	cm		[1]	
	(f)	Yes (if w	ithin 2 cm) No (if not)		[1]	
	(g)		e/real brightness/coloured edges		[1] [1]	
					[Total: 10]	