MARK SCHEME for the October/November 2006 question paper

0625 PHYSICS

0625/06

Paper 6 (Alternative to Practical), maximum raw mark 40

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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.

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	Page 2			Mark Scheme	Syllabus	Paper				
				IGCSE - OCT/NOV 2006	0625	06				
1	(a)	4.1 (0	[1]							
	(b)	(i)	4.9 bot	(cm) h in correct unit		[1] [1]				
		(ii)	7.8 cm	3(4) (ecf)		[1] [1]				
	(c)	(i)	7/7 (ec	.0/7.1/7.2/7.3/7.4/7.5 f: less than V by up to 10% with equivalent sf)		[1]				
		(ii)	cor 1/2	rect d value (0.84 – 0.90, no ecf) /3 sf and g/cm ³		[1] [1]				
						[Total: 8]				
2	(a)	cm; s	cm; s; s			[1]				
	(b)	1.835; 1.787; 1.753; 1.706; 1.672 (accept 3 sf) consistent sf (3/4)			[1] [1]					
	(c)	Axes suitable (plots occupy at least ½ grid) and labelled, false origin as instructed Plots correct to ½ small sq (–1 each error) Well judged best fit line line suitably thin				[1] [2] [1] [1]				
	(d)	No a	No and not a straight line through the origin			[1]				
	(e)	greater accuracy (wtte)				[1]				
						[Total: 10]				
3	(a)	(i)	nor	mal correct (by eye) (single, thin line)		[1]				
		(ii)	AG	= 11.5 cm (<u>+</u> 0.1)		[1]				
		(iii)	i = :	26°/27°/28° (ignore unit)		[1]				
	(b)	(i)	CD	pin separation \geq 5 cm		[1]				
		(ii)	bas pin	ses s may not be vertical		[1] [1]				
						[Total: 6]				

	Page 3		Mark Scheme	Syllabus	Paper
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4	(a)	28°C value unit			[1] [1]
	(b)	B smalle (OR n	r temp drop either, insignificant difference)		[1] [1]
	(c)	any si	itable insulator		[1]
	(d)	Any 3 initial t volum size/sl room t materi	from emp e of water nape of beaker emp/draughts/simultaneous timings al of beaker		
		beake	rs on same surface		[3]
					[Total: 8]
5	(a)	correc correc circuit	t symbols for ammeter and voltmeter t symbols for variable resistor, lamp and resistor correct		[1] [1] [1]
	(b)	ammeter will show current/voltmeter shows reading			[1]
	(c)	variable resistor			[1]
	(d)	(i)	low current/increase R of variable resistor/ lower voltage/add another lamp		[1]
		(ii)	switch off between readings		[1]
	(e)	A, more resistance in circuit			[1]
					[Total: 8]