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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UNIVERSITY of CAMBRIDGE International Examinations

Page 2		Mark Scheme IGCSE - OCT/NOV 2006	Syllabus 0625	Paper 06
			0023	00
(a)	4.1 (c	m)		[1]
(b)	(i)	4.9 (cm) both in correct unit		[1] [1]
	(ii)	7.83(4) (ecf) cm ³		[1] [1]
(c)	(i)	7/7.0/7.1/7.2/7.3/7.4/7.5 (ecf: less than V by up to 10% with equivalent sf)		[1]
	(ii)	correct d value (0.84 – 0.90, no ecf) 1/2/3 sf and g/cm ³		[1] [1]
				[Total: 8]
(a)	cm; s;	S		[1]
(b)		; 1.787; 1.753; 1.706; 1.672 (accept 3 sf) stent sf (3/4)		[1] [1]
(c)	and la Plots Well ji	suitable (plots occupy at least ½ grid) abelled, false origin as instructed correct to ½ small sq (–1 each error) udged best fit line uitably thin		[1] [2] [1] [1]
(d)	No and not a straight line through the origin			[1]
(e)	greater accuracy (wtte)			[1]
				[Total: 10]
(a)	(i)	normal 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)	bases pins may not be vertical		[1] [1]
				[Total: 6]

	Page 3		Mark Scheme	Syllabus	Paper
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4	(a)	28°C v unit	ralue		[1] [1]
	(b)		r temp drop either, insignificant difference)		[1] [1]
	(c)	any si	itable insulator		[1]
	(d)	size/s room mater	emp e of water nape of beaker emp/draughts/simultaneous timings al of beaker		
		beake	rs on same surface		[3]
					[Total: 8]
5	(a)	correct symbols for ammeter and voltmeter correct symbols for variable resistor, lamp and resistor circuit 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, mo	e resistance in circuit		[1]
					[Total: 8]