UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2006 question paper

0625 PHYSICS

0625/06

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

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.

CIE is publishing the mark schemes for the October/November 2006 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2	Mark Scheme	Syllabus	Paper
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1	(a)	4.1 (cm)			
	(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]	
2	(a)	cm; s	s; s	[1]	
	(b)		5; 1.787; 1.753; 1.706; 1.672 (accept 3 sf) stent sf (3/4)	[1] [1]	
	(c)	and I Plots Well	suitable (plots occupy at least ½ grid) abelled, false origin as instructed correct to ½ small sq (–1 each error) judged best fit line uitably thin	[1] [2] [1] [1]	
	(d)	No a	nd not a straight line through the origin	[1]	
	(e)	great	er accuracy (wtte)	[1]	
				[Total: 10]	
3	(a)	(i)	normal correct (by eye) (single, thin line)	[1]	
		(ii)	AG = 11.5 cm (<u>+</u> 0.1)	[1]	
		(iii)	$i = 26^{\circ}/27^{\circ}/28^{\circ}$ (ignore unit)	[1]	
	(b)	(i)	CD pin separation <u>></u> 5 cm	[1]	
		(ii)	bases pins may not be vertical	[1] [1]	
				[Total: 6]	

	Pa	Page 3		Mark Scheme	Syllabus	Paper
				IGCSE - OCT/NOV 2006	0625	06
4	(a)	28°C value unit				[1] [1]
	(b)	B smalle (OR ne		[1] [1]		
	(c)	any su		[1]		
	(d)	Any 3 initial t volume size/sh room t materi				
		beakers 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)	` '		current/increase R of variable resistor/ er voltage/add another lamp		[1]
		(ii)	swi	tch off between readings		[1]
	(e)	A, more resistance in circuit				[1]
						[Total: 8]