

June 2003

INTERNATIONAL GCSE

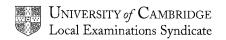
MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0625/06

PHYSICS

Alternative to Practical



	Page 1		Mark Scheme	Syllabus	Paper	
			IGCSE EXAMINATIONS – JUNE 2003	0625	6	
1	(a)		Seven correct values: 0, 2, 3, 6, 9, 10, 12 (-1 each error)			
	(b)		Graph: Scales, labelled, suitable size Axes, right way round Plots to ½ sq (-1 each error)		1 1 2	
	(c)		Line shape Line thickness		1	
			Triangle greater than $\frac{1}{2}$ line and method used Correct interpolation to $\frac{1}{2}$ sq		1 1	
				TOTAL	10	
2	(a)		36° (±1°)		1	
	(b)		Refracted ray drawn $22^{\circ} (\pm 1^{\circ})$ normal correct (by eye) neat, thin, correct lines		1 1 1	
	(c)		Correct refracted ray (by eye) with arrow		1	
	(d)		Separation (LHS) at least 5cm Separation (RHS) at least 5cm		1 1	
				TOTAL	8	
3	(a)	(i)	Voltmeter across lamp		1	
		(ii)	Variable resistor/rheostat		1	
	(b)		Correct position		1	
	(c)		V A Ω correct R at 9.8V = 8.16666 (any sf) all R to 2/3 sf consistent 2 sf or consistent 3 sf		1 1 1 1 1	
				TOTAL	9	
4	(a)	(i)	6.8cm (68mm)		1	
		(ii)	6.8 unit, mm		1	
	(b)	(i)	3.8/3.77 or 0.38/0.377 mm or cm as appropriate		1 1	

TOTAL

5

Page 2		2	Mark Scheme	Syllabus	Paper
			IGCSE EXAMINATIONS – JUNE 2003	0625	6
		(::\	0.04/0.05 (an arida na afairician las 4)		4
		(ii)	0.94/0.95 (or evidence of division by 4)		1
		(iii)	0.75094/0.75095		1
	(c)		Thickness of string/thickness of marks on string/streto string/metre rule measures to 1mm	hing of	1
				TOTAL	8
5	(a)	(i)	polystyrene		1
		(ii)	Least steep curve (or numbers suitably quoted)		1
	(b)		Three from: Thickness of insulator Room temp. Starting temp. Mass/vol./amount of water Using same can		3