

Wany, Papa Cambridge, com MARK SCHEME for the May/June 2012 guestion paper

for the guidance of teachers

0625 PHYSICS

0625/63

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

This mark scheme is published as an aid to teachers and candidates, 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, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

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Page 2	Mark Scheme: Teachers' versionSIGCSE – May/June 2012	Syllabus Page r 0625 Page r
	d values .0, 50.0, 40.0, 30.0, 20.0, 10.0 LLOW m, mm if consistent with figures	Syllabus 0625
	gainst <i>F</i> (or vice versa) OR distance against force/forceme T 'extension', 'forcemeter', quantity expressed just as unit	eter reading
(ii) Stra Thrc	aight line ough origin or wtte	[1 [1
(c) Would ch	hange forcemeter reading/change mass on rule/wtte	[1
	listance from bench is the same at two points or wtte/ by eye with windowsill (or suitable horizontal reference)	[1
		[Total: 7]
(a) 23 <u>°C</u> ne	eed unit for the mark	[1
Suitable All plots Good line	rrectly labelled with quantity and unit scales correct to ½ small square ne judgement ntinuous line	[1 [1 [1 [1 [1
Draughts	emperature/humidity/sun through window/air conditioning s	
Initial wa	ater temperature	[2 [Total: 8
(a) (i) V ₁ = I ₁ = Units		[1 [1 [1
(ii)/(iii) R _P = Ω	= 6.33 and $4R_{\rm P}$ = 25.3/25.2 to 2 or 3 sig. figs.	[1 [1
(b) <i>R</i> _s = 23.1	.8 (Ω) or 24 (Ω)	[1
	statement (from candidate's work) tching justification (idea of within or beyond experimental	accuracy) [1

Page 3		vilabus ???
	IGCSE – May/June 2012	0625 23
(d) Circuit: c	orrect symbols for ammeter, voltmeter and lamp in correc	t series circuit
(e) (i) Cha	nge/control current/voltage	Vilabus 0625 t series circuit
(ii) To c	btain range of readings (or wtte)	[1]
		[Total: 10]
	arallel with ONE sphere completely between rectly placed	[1] [1]
	of sight perpendicular to scale of sight along bottom of meniscus	[1] [1]
(ii) 70 (cm ³)	[1]
(iii) 0.53	cm ³ , 2 or 3 significant figures, with unit	[1]
		[Total: 6]
N at 4 cr	at 90° in correct position n above AB and angle of incidence 20° 4.3 cm ± 1 mm correct answer only	[1] [1] [1]
<i>a</i> and <i>b</i> <i>b</i> value <i>n</i> value r	ct lines drawn, thin and continuous both with consistent, correct unit which matches figures 6.2 cm ± 3 mm correct answer only ange 1.4 – 1.5 after rounding significant figures and no unit	[1] [1] [1] [1] [1]
View bas	l spaced east 5 cm apart ses of pins vins vertical lines encil	[1]
		[Total: 9]