UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education



MARK SCHEME for the October/November 2008 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 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.

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.

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1	(a) view perpendicular to (or straight in front of rule)/use of set square	[1]
	(b) (i) correct e ₁ value 3.1 and correct e ₂ value 2.4 e in cm	[1] [1]
	(c) density 4.43 (ecf) 2/3 significant figures g/cm ³	[1] [1] [1]
	(d) e_2 greater ρ greater (or identical to e_2 answer) (ecf)	[1] [1]
		[Total: 8]
2	Diagram: correct symbols for ammeter and voltmeter correct symbols for resistor correct circuit arrangement	[1] [1] [1]
	Table: units V, A (symbol/word)	[1]
	 (c) Prediction 1 Yes – close enough (or words to that effect) OR No – not close enough (or words to that effect) Prediction 2 Yes – approximately half (or words to that effect) 	[1] [1]
	Resistance at connections Internal resistance of source/other sensible suggestion	[1]
		[Total: 7]
3	Table	
	θ in °C, V in cm ³ correct V 0, 20, 40, 60, 80, 100	[1] [1]
	Graph: axes labelled with symbol and unit axes suitable (e.g. not '3' scale) and plots occupy more than ½ grid all plots correct (better than ½ sq) well judged, thin best fit line	[1] [1] [1] [1]
	(a) 1 consible comment about boot loss to the comment discrete a succession with	ion/lid [4]
	 1. sensible comment about heat loss to the surroundings, e.g. use of insulate 2. sensible comment about adding water in a regulated, timed flow (included the surroundings) and time intervals. 	ling smaller
	volumes/set time intervals/shorter intervals	[1]
		[Total: 8]

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Paper 6

Syllabus 0625

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4		4.9(4), or 15 ct unit for <i>f</i>		[1] [1]
	(b) (i) x	$y_{\rm s} = 5.0$ (cm) and $y_{\rm s} = 5.2$ (cm)		[1]
	` '	actor of ×6 v = 31.2(cm) (ecf)		[1] [1]
	(iii) 1	5.29, 15.3, 15 (ecf)		[1]
	` / 2	correct method 2 or 3 significant figures and correct unit average <i>f</i> 15.1 (correct answer only)		[1] [1] [1]
	(c) inver	ted image		[1] [Total: 10]
5	(a) 0.7 N 6 cm ³ 1.4 s 4.0 N			[1] [1] [1] [1]
		ninimum current/turn down power supply/increase resis	stance	[1] [1]
	(ii) v	variable resistor/rheostat		[1]
				[Total: 7]