MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0652 PHYSICS

0652/51

Paper 5 (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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2010	0652	51
1	(a)	<i>d</i> values correct c		[1] [1]	
	(b)	All plots Well judg	elled and suitable scale correct to ½ small square ged line (position) e, single (quality)		[1] [1] [1] [1]
	(c)		t by triangle method using at least ½ candidate's line n graph, how obtained)	[1] [1]
	(d)		0.5 cm – 5 cm o 2 or 3 significant figures with correct unit		[1] [1] [Total: 10]
2	(a)	$ heta_{ m r}$ sensib	ble value		[1]
		Table 2.2			[1] [1] [1] [1] [1]
	(e)	at least 3	300s and given to nearest 10s or in mins		[1]
	(f)	(f) Statement matches readings and justified by reference to readings Comparison given of changes in temperature and time with numbers		•	[1]
	(g)	constant same tim same the	arting temperature t room temperature/avoid draughts/same place ne intervals ermometer (wtte) ass/amount/volume of water		
		lid alway			[2]
					[Total: 10]

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	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – October/November 2010	0652	51
3	(a) Ammete Resistor Correct o		[1] [1] [1]	
	(b) <i>I</i> ₀ 0.1–1.	0 (A)		[1]
				[1] [1] [1] [1]
		calculation of $0.5I_0$ shown (ecf) e matches results and given to nearest ohm		[1] [1] [Total: 10]
4	Trace: Normal at 90 Correct initia Point E label Initial pin sep All lines neat	[1] [1] [1] [1] [1]		
	(i) θ correct	t to ± 2°		[1]
	(j) Correct	calculation of difference		[1]
		les present and angles in ° once, no contradiction)		[1]
	(either e	statement matching results xact or within limits of experimental accuracy, or w referring to specified results	tte)	[1] [1]
				[Total: 10]

Please note that due to a labelling error on the paper, the final five marks were not considered when deciding the grade thresholds.

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